

A1-F18AC-740-510

1 NOVEMBER 2001

CHANGE 1 - 1 JUNE 2002

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
SYSTEM SCHEMATICS**

WEAPON CONTROL SYSTEMS

**NAVY MODEL
F/A-18A AND F/A-18B
161353 AND UP**

N68936-01-D-0007

This volume is one of three volumes and is incomplete without A1-F18AC-740-500 and A1-F18AC-740-520. This volume contains WP026 00 through WP050 00.

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NATEC ELECTRONIC MANUAL

NUMERICAL INDEX OF EFFECTIVE WORK PACKAGES/PAGES

List of Current Changes

Original 0 1 Nov 01 Change 1 1 Jun 02

Only those work packages/pages assigned to the manual are listed in this index. Insert Change 1, dated 1 June 2002. Dispose of superseded work packages/pages. Superseded classified work packages/pages shall be destroyed in accordance with applicable security regulations. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of text affected in a change or revision is indicated by change bars or the change symbol "R" in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands, change bars, or MAJOR CHANGE symbols. Changes to diagrams may be indicated by shaded borders.

Total number of pages in this manual is 322, consisting of the following:

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TPDR-1	1	1	0	032 03		036 00	
TPDR-2 Blank	1	2 Blank	0	1 - 4	1	1 - 6	0
026 00		029 01		033 00		037 00	
1	0	1 - 4	0	1	0	1 - 5	0
2 Blank	0	029 02		2 Blank	0	6 Blank	0
026 01		1 - 4	1	033 01		038 00	
1 - 4	0	030 00		1 - 4	0	1	1
026 02		1	0	033 02		2 - 12	0
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027 00		030 01		033 03		16	0
1	0	1 - 4	0	1 - 4	1	17	1
2 Blank	0	030 02		034 00		18 Blank	1
027 01		1 - 4	0	1	0	039 00	
1 - 5	0	031 00		2 Blank	0	1	1
6 Blank	0	1	0	034 01		2 - 12	0
027 02		2 Blank	0	1 - 4	0	13 - 15	1
1 - 5	0	031 01		034 02		16	0
6 Blank	0	1 - 4	0	1 - 5	0	17	1
027 03		031 02		6 Blank	0	18 Blank	1
1 - 4	1	1 - 4	1	035 00		040 00	
028 00		032 00		1	0	1 - 7	0
1	0	1	0	2 Blank	0	8 Blank	0
2 Blank	0	2 Blank	0	035 01		041 00	
028 01		032 01		1 - 10	0	1 - 4	0
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028 02							
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1 - 7	0	1 - 17	0	1	0	1 - 4	0
8 Blank	0	18 Blank	0	2 Blank	0	050 00	
044 00		046 00		048 01		1 - 22	0
1	0	1 - 4	0	1 - 12	0		
2 Blank	0						
044 01							
1 - 4	0						

LIST OF TECHNICAL PUBLICATION DEFICIENCY REPORTS INCORPORATED**ORGANIZATIONAL MAINTENANCE****SYSTEM SCHEMATICS****WEAPON CONTROL SYSTEMS**

This TPDR supersedes TPDR, dated 1 November 2001.

1. The TPDRs listed below have been incorporated in this issue.

IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER	LOCATION
NONE	

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC WEAPON STATION 1 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 1 Power Control Schematic - 161353 AND UP	
BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	026 01
Weapon Station 1 Power Control Schematic - 161353 AND UP	
AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	026 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 1 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Weapon Station 1 Power Control Schematic, Figure 1	2

Record of Applicable Technical Directives

None

- | | |
|---|--|
| 1. INTRODUCTION. | launcher and the encoder-decoder that controls the weapon station. |
| 2. The schematic in this work package shows the power requirements for weapon station 1. The schematic shows all the power to the weapon station, | |
| 3. The location of the components on this schematic can be seen in WP008 00. | |

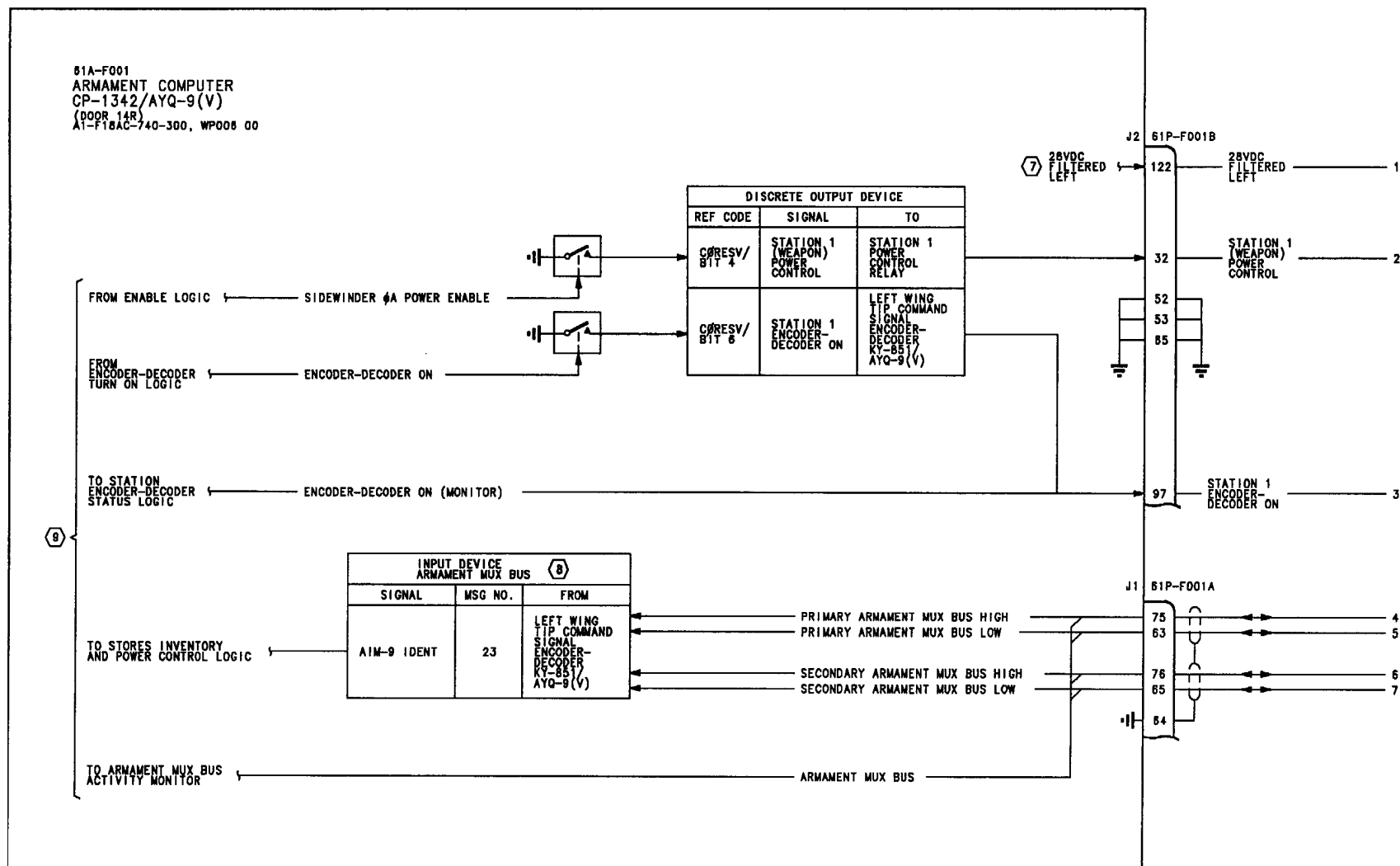


Figure 1.

Figure 1. Weapon Station 1 Power Control Schematic (Sheet 1)

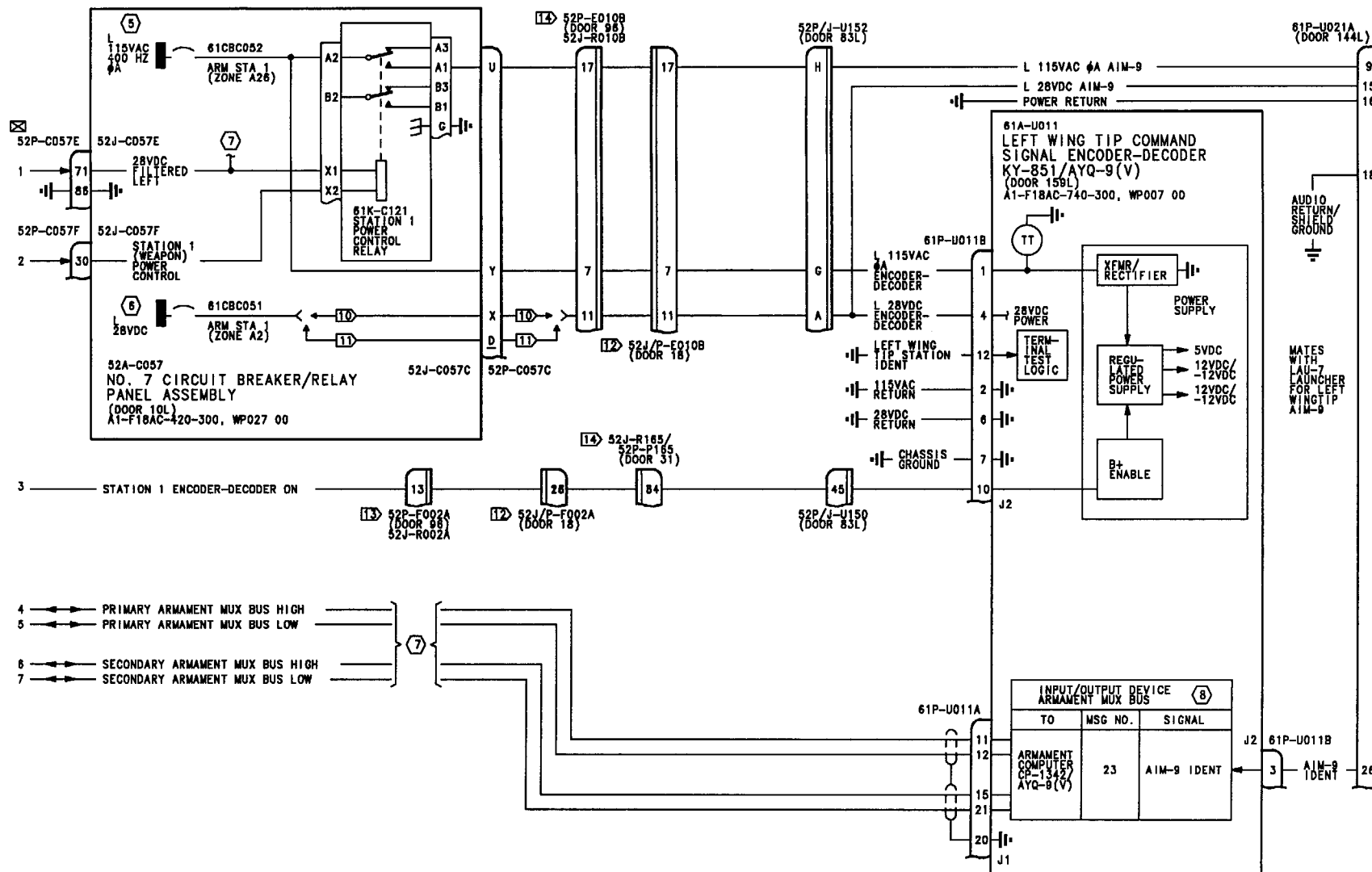


Figure 1.

Figure 1. Weapon Station 1 Power Control Schematic (Sheet 2)

Figure 1.

26010102

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - E. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ⊗). MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01.
-
5. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 6. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 7. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 8. ARMAMENT MUX BUS DATA, WP010 00.
 9. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 10. 161353 THRU 161528.
 11. 161702 AND UP.
 12. F/A-18A.
 13. F/A-18B.
 14. 162445 AND UP.

Figure 1. Weapon Station 1 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 1 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

This WP supersedes WP026 02, dated 1 November 2001.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

- INTRODUCTION.**

launcher and the encoder-decoder that controls the weapon station.
- The schematic in this work package shows the power requirements for weapon station 1. The schematic shows all the power to the weapon station,
- The location of the components on this schematic can be seen in WP008 00.

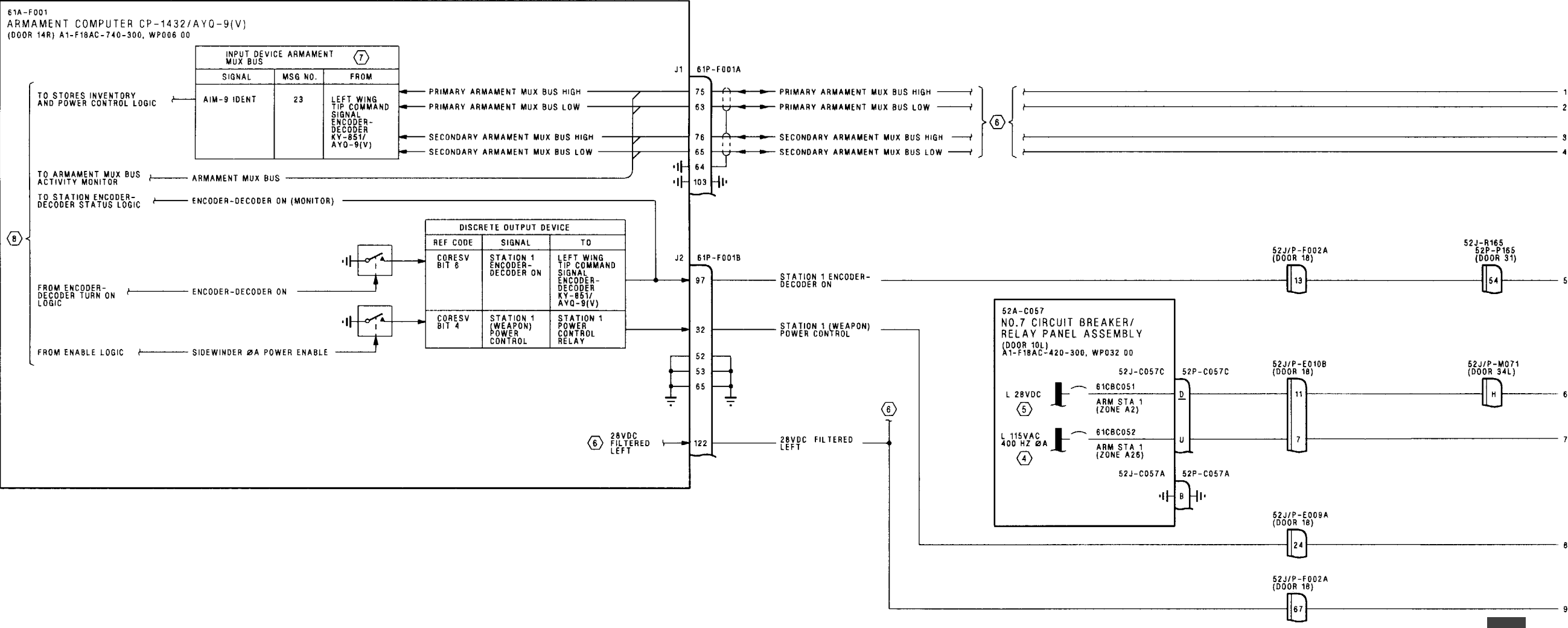


Figure 1.

Figure 1. Weapon Station 1 Power Control Schematic (Sheet 1)

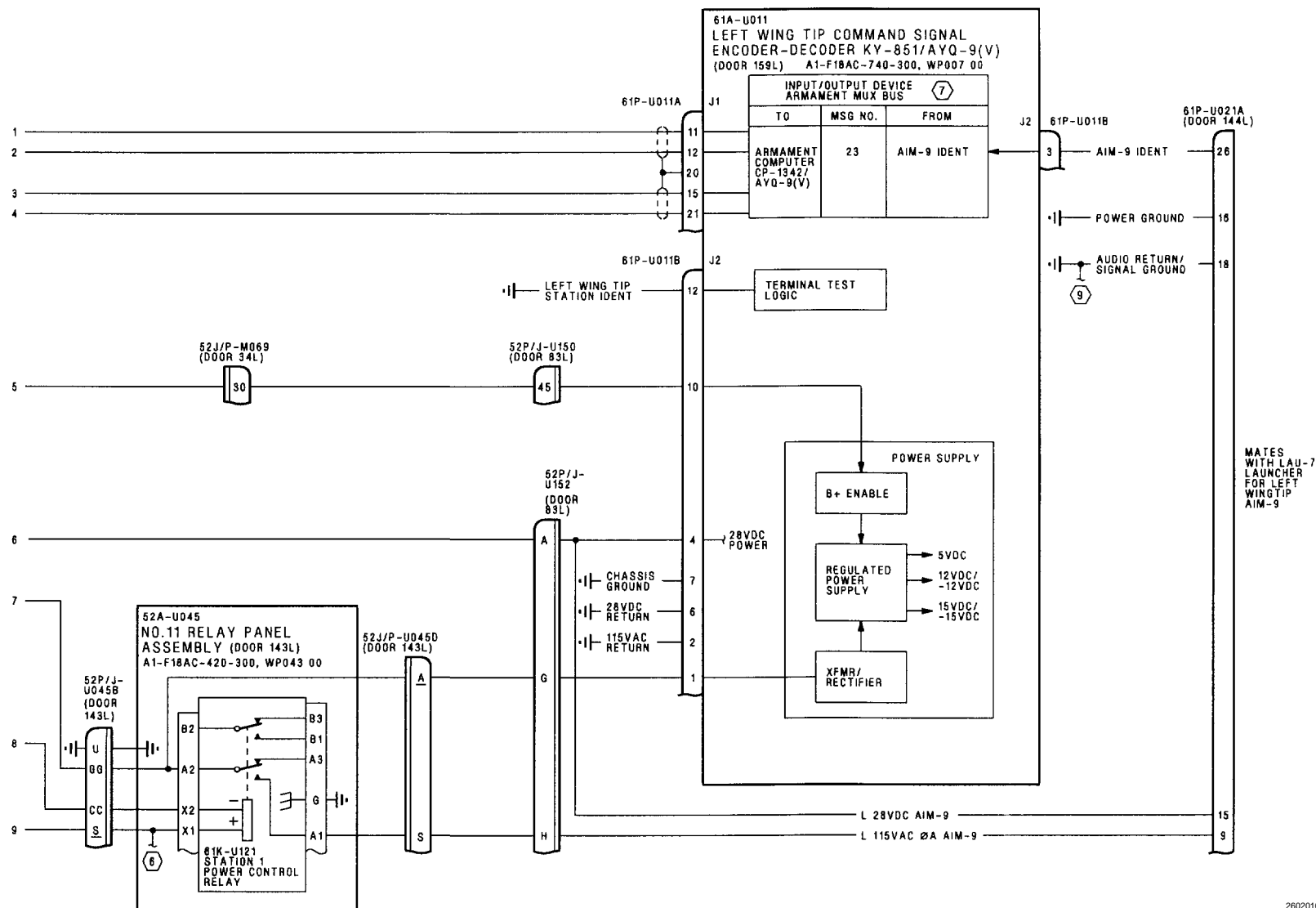


Figure 1.

Figure 1. Weapon Station 1 Power Control Schematic (Sheet 2)

Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
-
- ④ AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 - ⑤ DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 - ⑥ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC WP011 00.
 - ⑦ ARMAMENT MUX BUS DATA, WP010 00.
 - ⑧ WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 - ⑨ WEAPON STATION 1, 9 AIM-9 SIDEWINDER SCHEMATIC, WP046 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 2 Power Control Schematic - 161353 THRU 161987 BEFORE F/A-18 AFC 74	027 01
Weapon Station 2 Power Control Schematic - 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74	027 02
Weapon Station 2 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	027 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 THRU 161987, BEFORE F/A-18 AFC 74.

Reference Material

None

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Record of Applicable Technical Directives

None

- 1. INTRODUCTION.**
launchers/racks and the encoder-decoder that controls the weapon station.
2. The schematic in this work package shows the power requirements for weapon station 2. The schematic shows all the power to the weapon station,
3. The location of the components on this schematic can be seen in WP008 00.

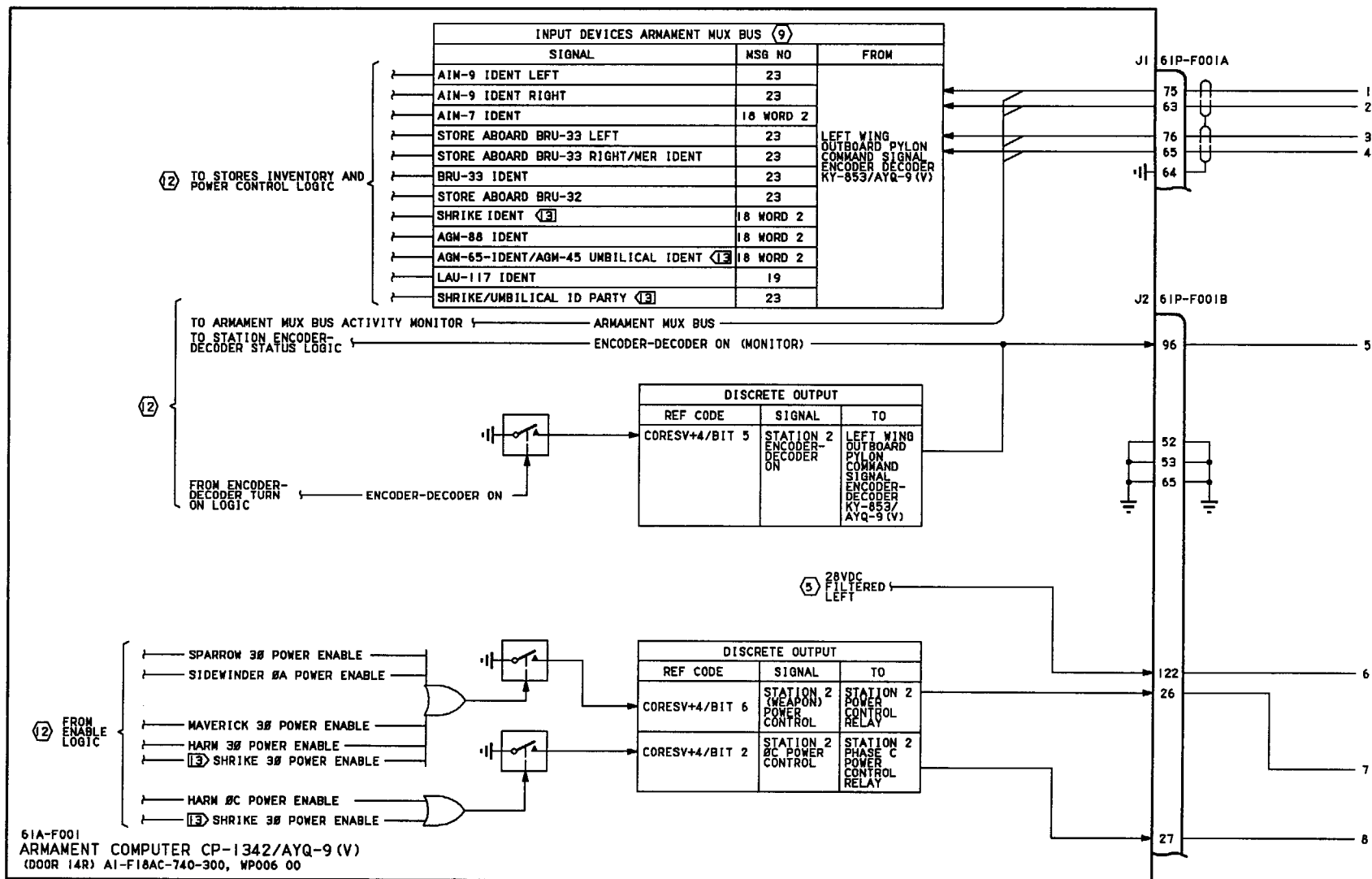


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 1)

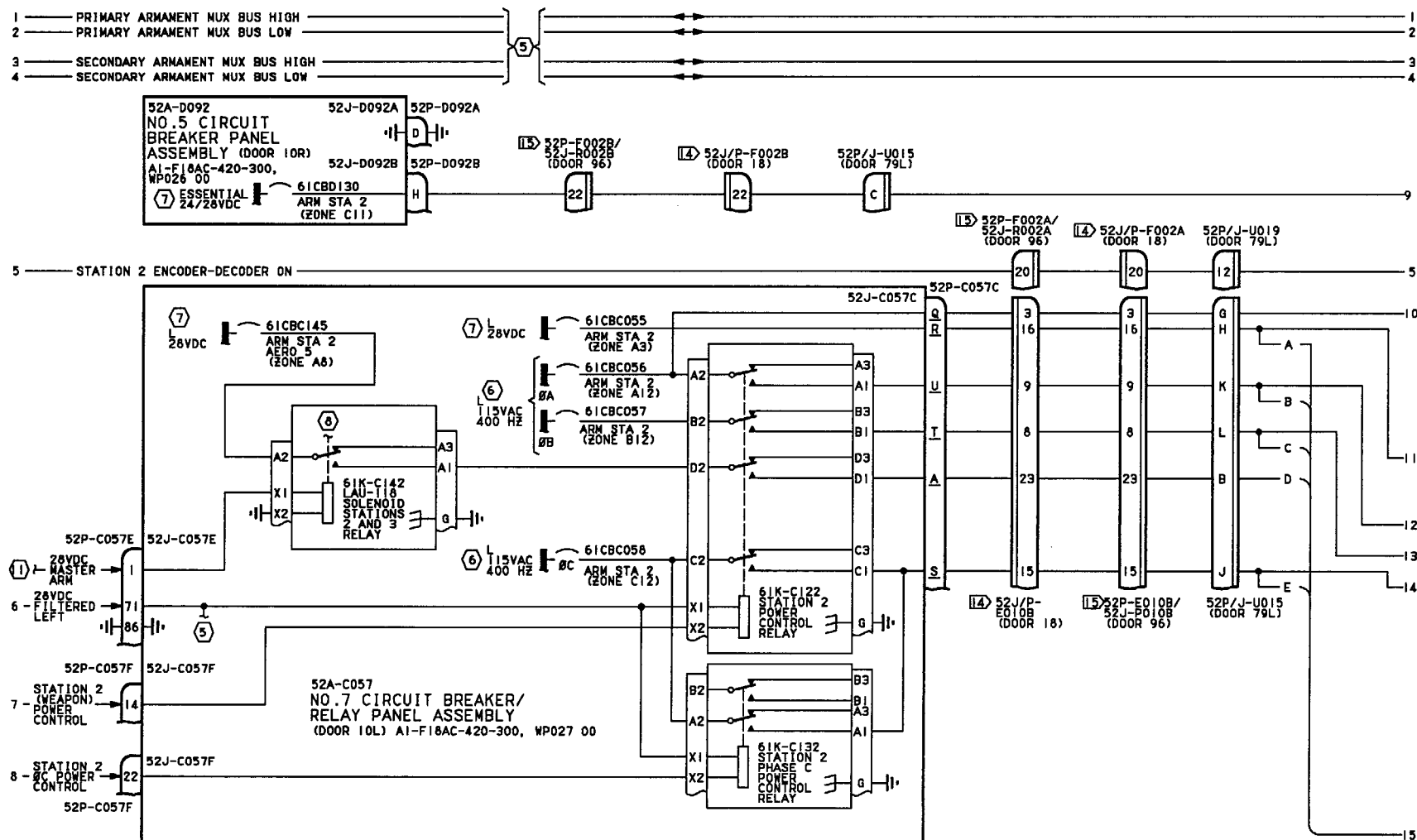


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 2)

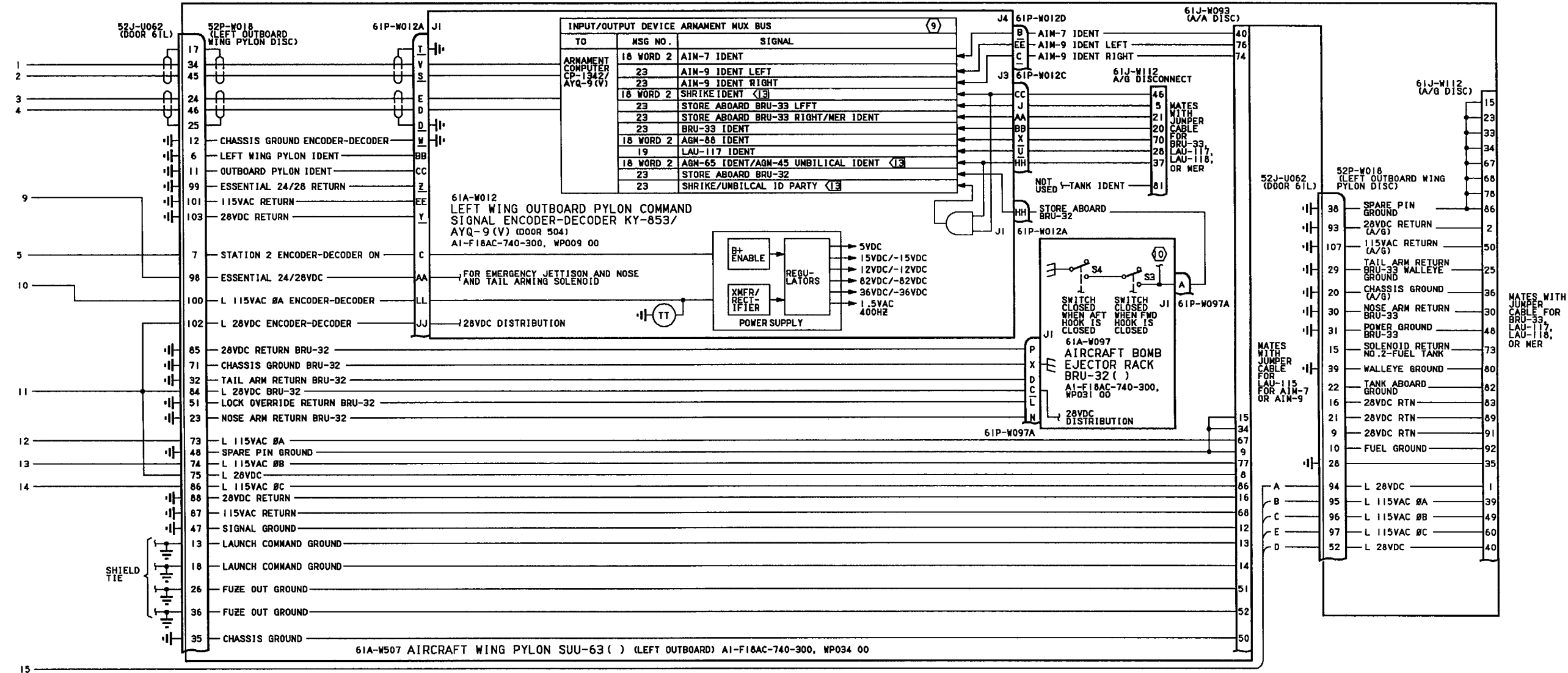


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 3)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS: SEE WP002 01.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
9. ARMAMENT MUX BUS DATA, WP010 00.
10. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
11. MASTER ARM SCHEMATIC, WP017 00.
12. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 01.
13. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM-000).
14. F/A-18A.
15. F/A-18B.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 4)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 162394 AND UP, BEFORE F/A-18 AFC 292 OR F/A-18 AFC 253; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA- F/A-18-00090)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION.

launchers-racks and the encoder-decoder that controls the weapon station.

2. The schematic in this work package shows the power requirements for weapon station 2. The schematic shows all the power to the weapon station,

3. The location of the components on this schematic can be seen in WP008 00.

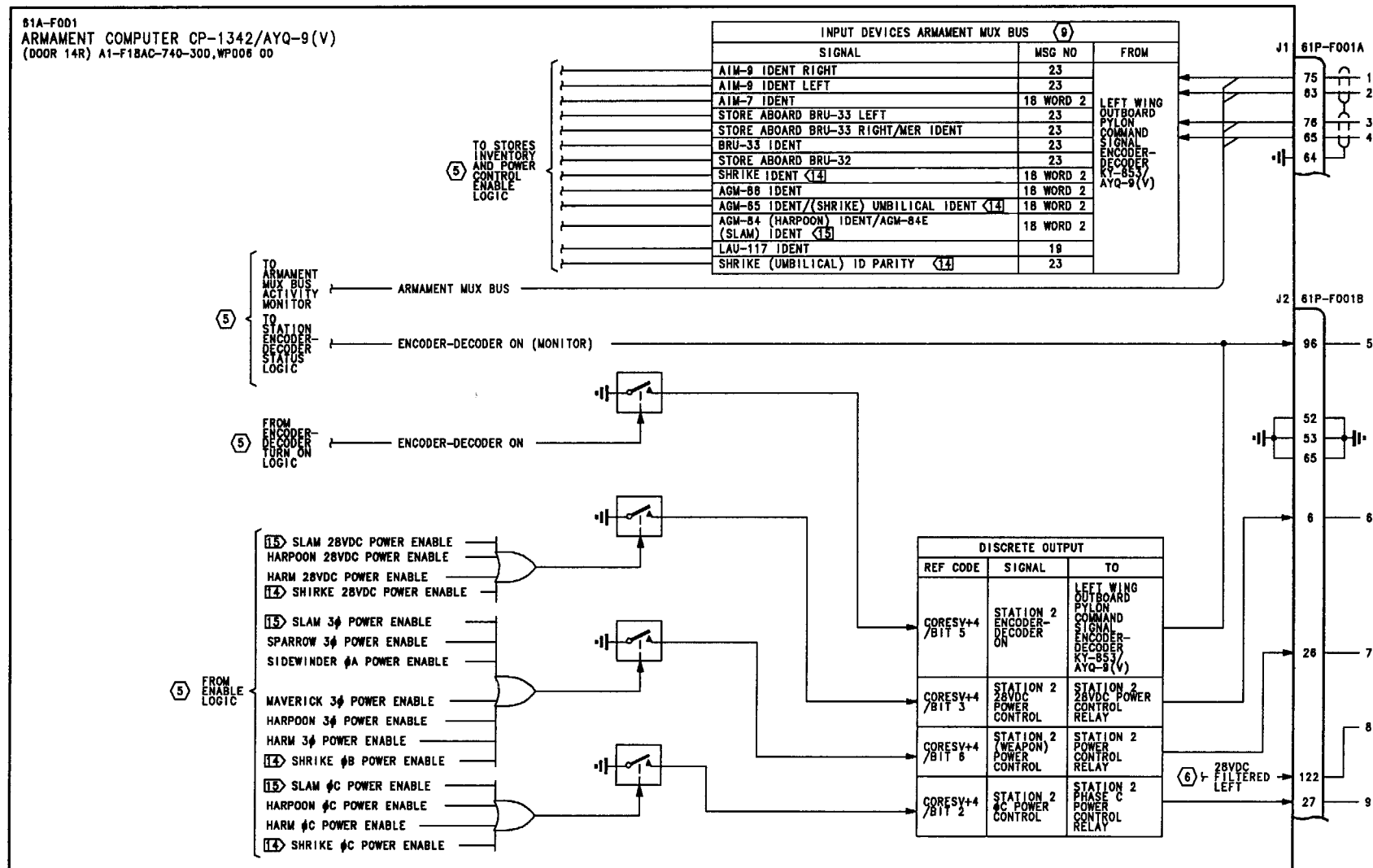


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 1)

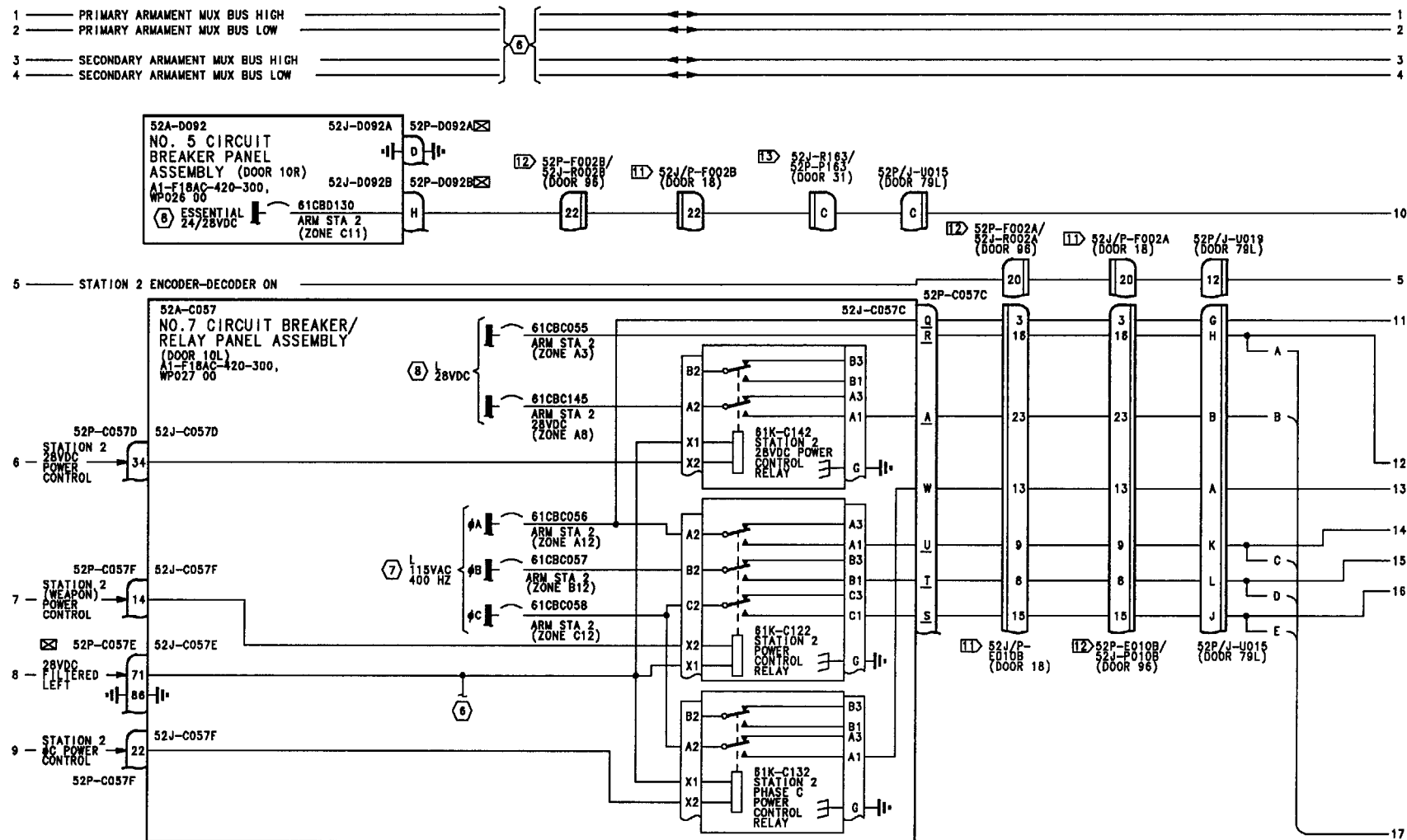


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 2)

Figure 1.

27020102



Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY
 - E. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ⊗), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01
-
5. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 6. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 7. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 8. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 9. ARMAMENT MUX BUS DATA, WP010 00.
 10. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
 11. F/A-18A.
 12. F/A-18B.
 13. 162445 AND UP.
 14. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85+ AND UP AND DIGITAL DATA COMPUTER 2 CONFIG/IDENT 85+ AND UP (A1-F18AC-SCM-000).
 15. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 4)

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 2 POWER CONTROL****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.****This WP supersedes WP027 03, dated 1 November 2001.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the power requirements for weapon station 2. The schematic shows all the power to the weapon station,

launchers-racks and the encoder-decoder that controls the weapon station.

3. The location of the components on this schematic can be seen in WP008 00.

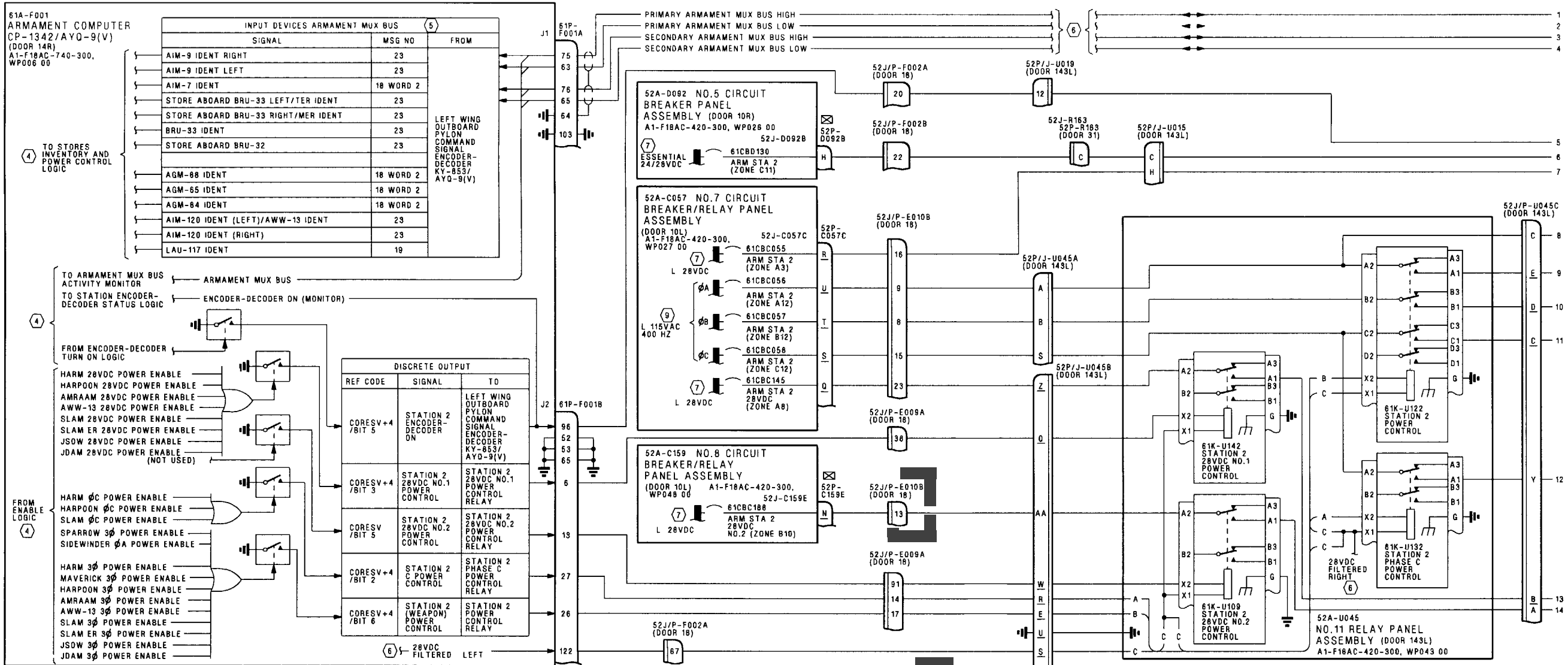


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 1)

Figure 1.

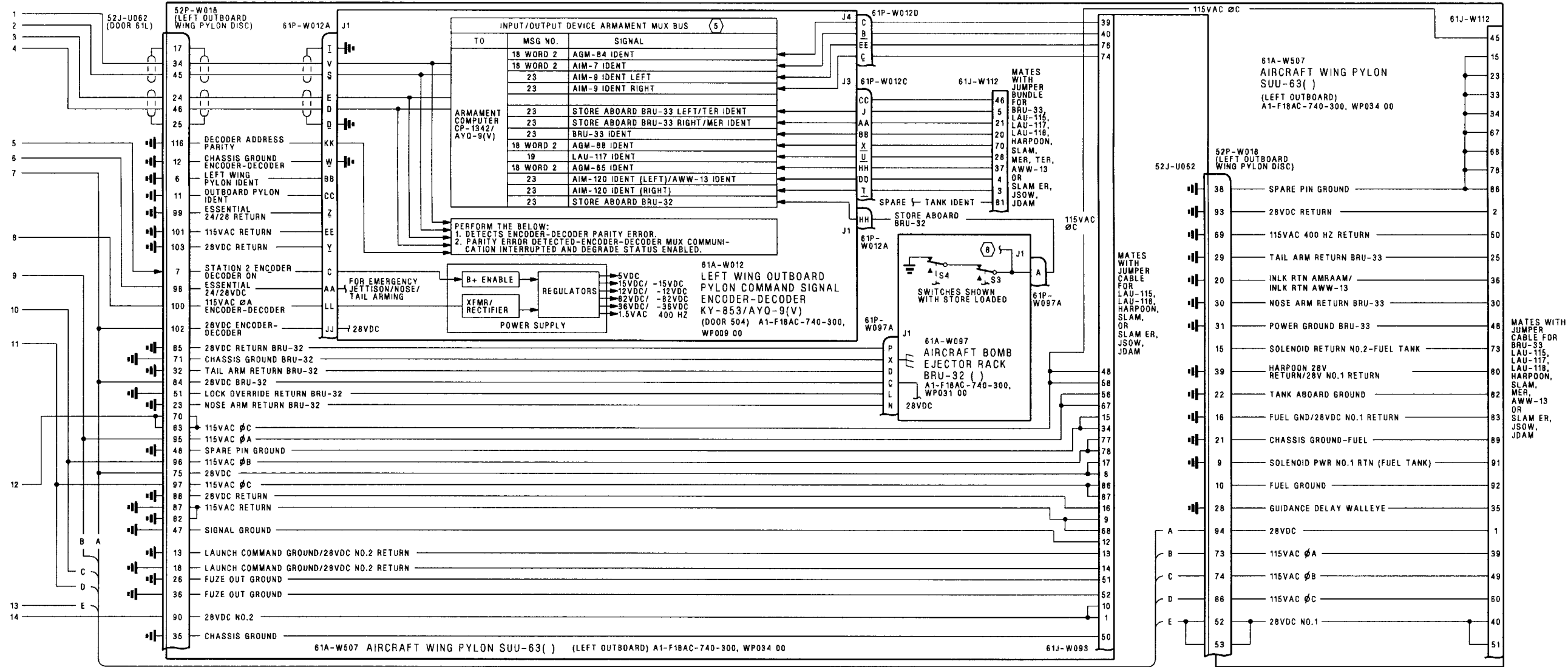


Figure 1.

Figure 1. Weapon Station 2 Power Control Schematic (Sheet 2)

Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes). MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
5. ARMAMENT MUX BUS DATA, WP010 00.
6. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
9. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 3 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 3 Power Control Schematic - 161353 THRU 161987 BEFORE F/A-18 AFC 74	028 01
Weapon Station 3 Power Control Schematic - 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74	028 02
Weapon Station 3 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	028 03

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 3 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 THRU 161987 BEFORE F/A-18 AFC 74.

Reference Material

None

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Record of Applicable Technical Directives

None

- | | |
|---|--|
| 1. INTRODUCTION. | |
| 2. The schematic in this work package shows the power requirements for weapon station 3. The schematic shows all the power to the weapon station, | racks, and encoder-decoder that controls the weapon station. |
| 3. The location of the components on this schematic can be seen in WP008 00. | |



Figure 1.

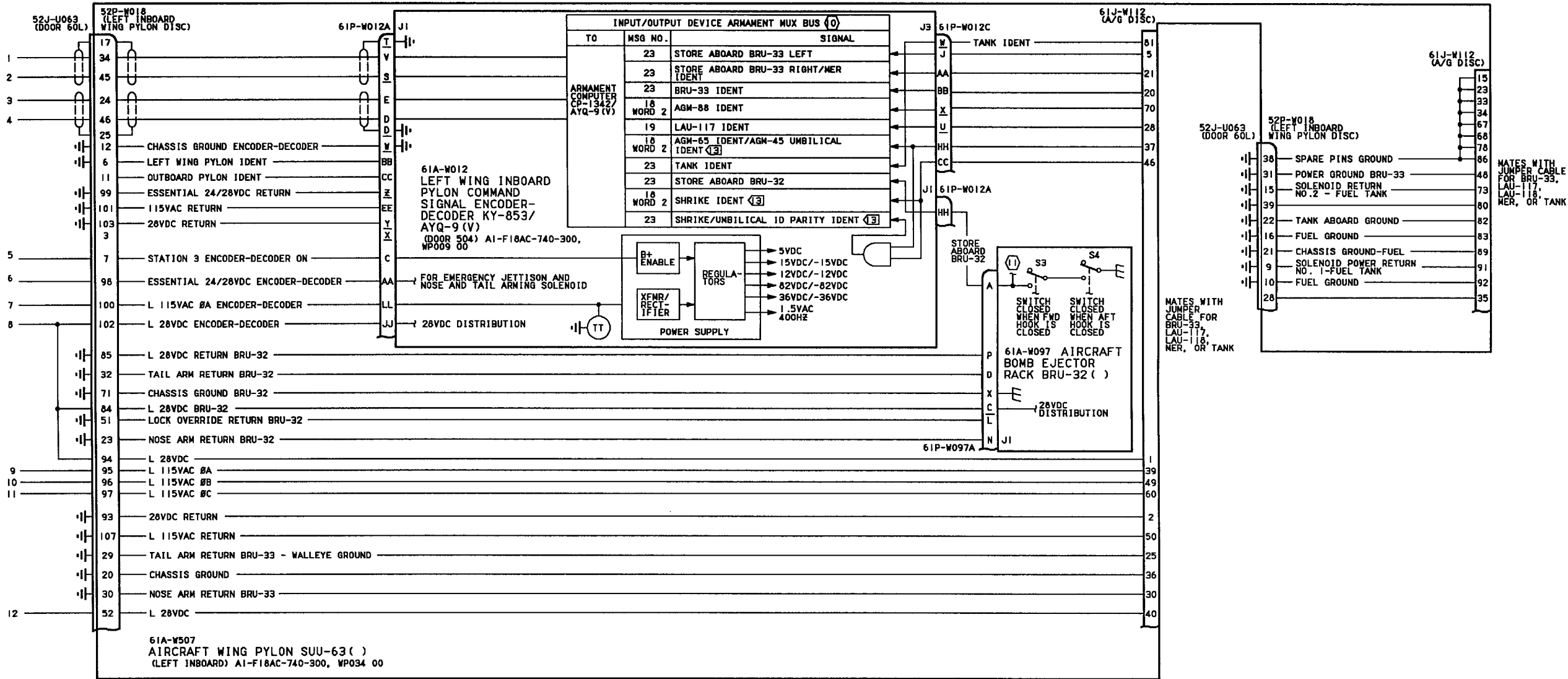


Figure 1.

Figure 1. Weapon Station 3 Power Control Schematic (Sheet 2)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS. SEE WP002 01.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. MASTER ARM SCHEMATIC, WP017 00.
9. WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
10. ARMAMENT MUX BUS DATA, WP010 00.
11. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
12. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 01.
13. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM 000).
14. F/A-18A.
15. F/A-18B.

Figure 1. Weapon Station 3 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 3 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA- F/A-18-00090)	1 Dec 89	ECP Coverage Only

1. **INTRODUCTION.**
2. The schematic in this work package shows the power requirements for weapon station 3. The schematic shows all the power to the weapon station,
- racks, and encoder-decoder that controls the weapon station.
3. The location of the components on this schematic can be seen in WP008 00.

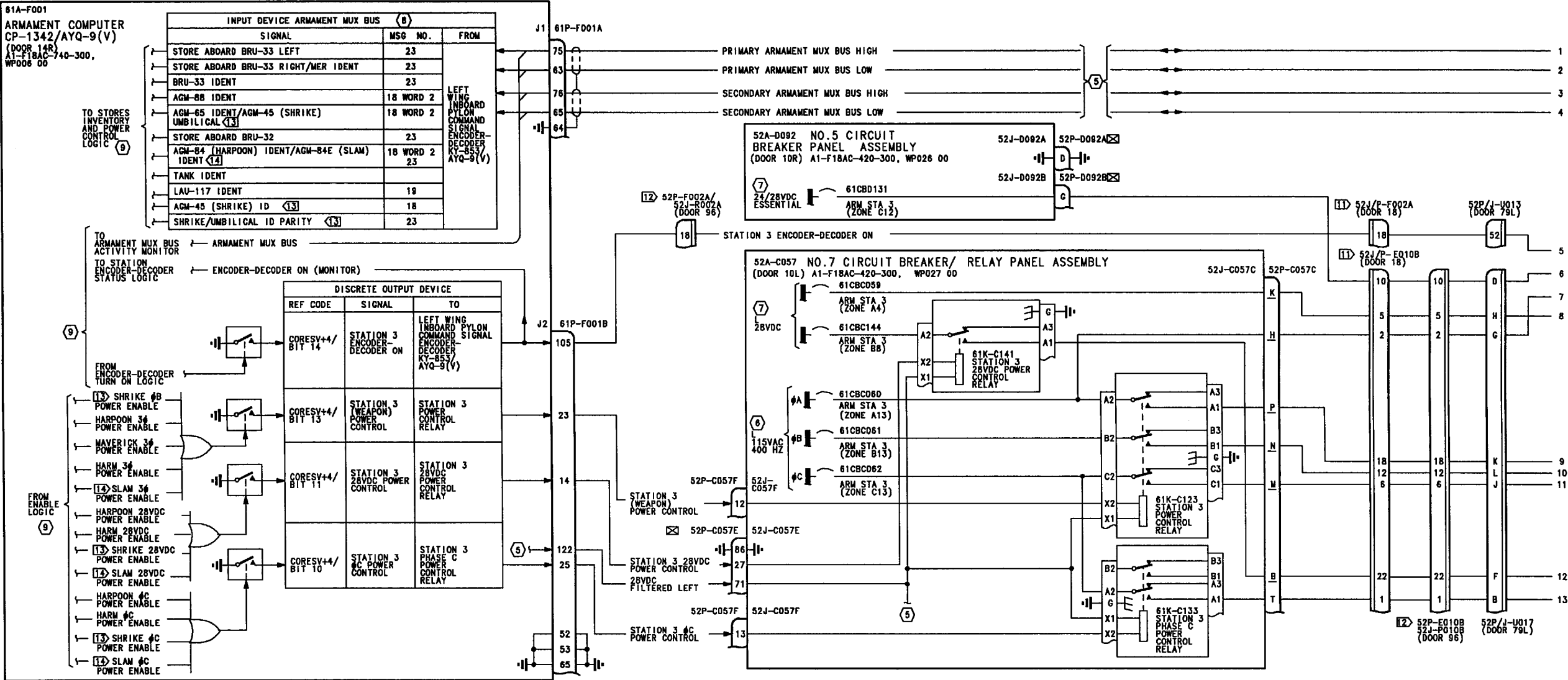


Figure 1.

Figure 1. Weapon Station 3 Power Control Schematic (Sheet 1)



LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - E. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ☒), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS: SEE WP002 01.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. ARMAMENT MUX BUS DATA, WP010 00.
9. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
10. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
11. F/A-18A.
12. F/A-18B.
13. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM-000).
14. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).

Figure 1. Weapon Station 3 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 3 POWER CONTROL****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.****This WP supersedes WP028 03, dated 1 November 2001.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the power requirements for weapon station 3. The schematic shows all the power to the weapon station,

racks and the encoder-decoder that controls the weapon station.

3. The location of the components on this schematic can be seen in WP008 00.

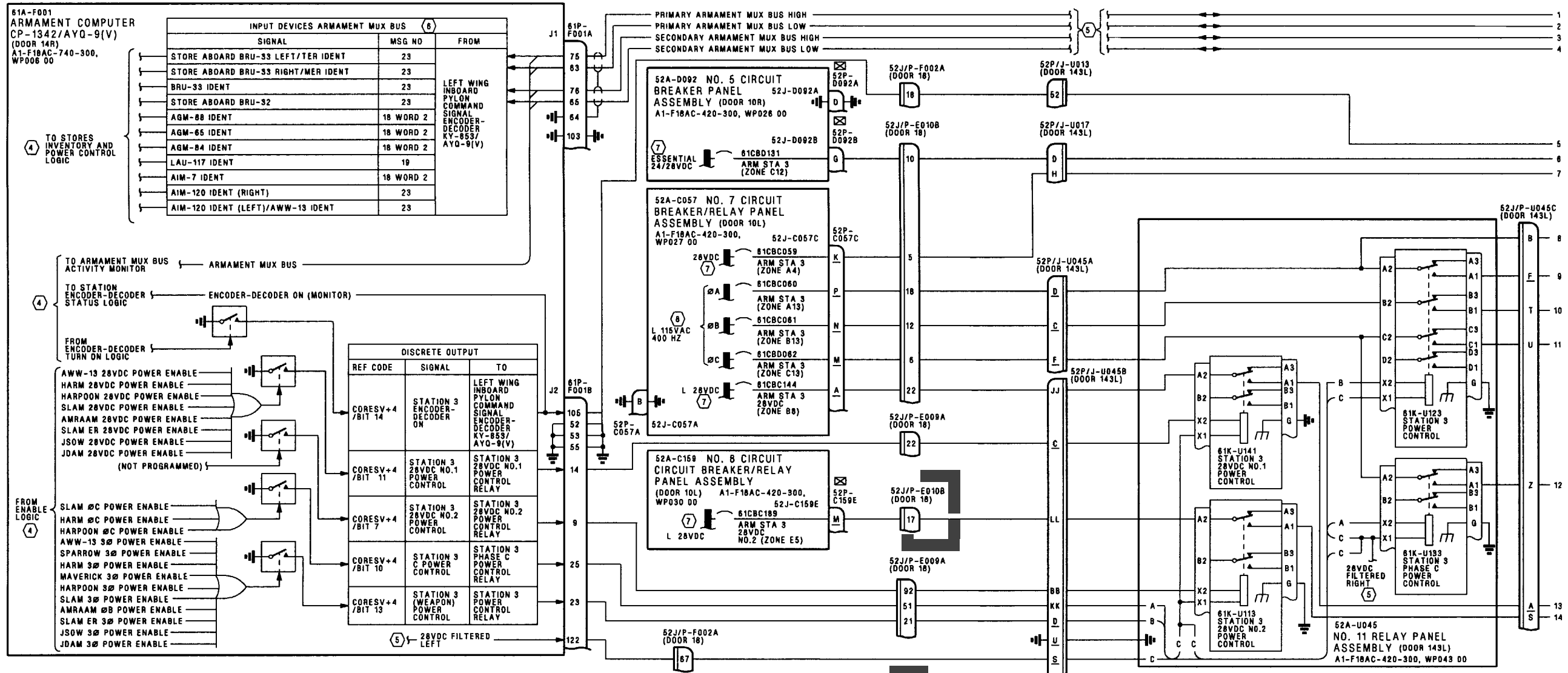


Figure 1.

Figure 1. Weapon Station 3 Power Control Schematic (Sheet 1)

Figure 1.

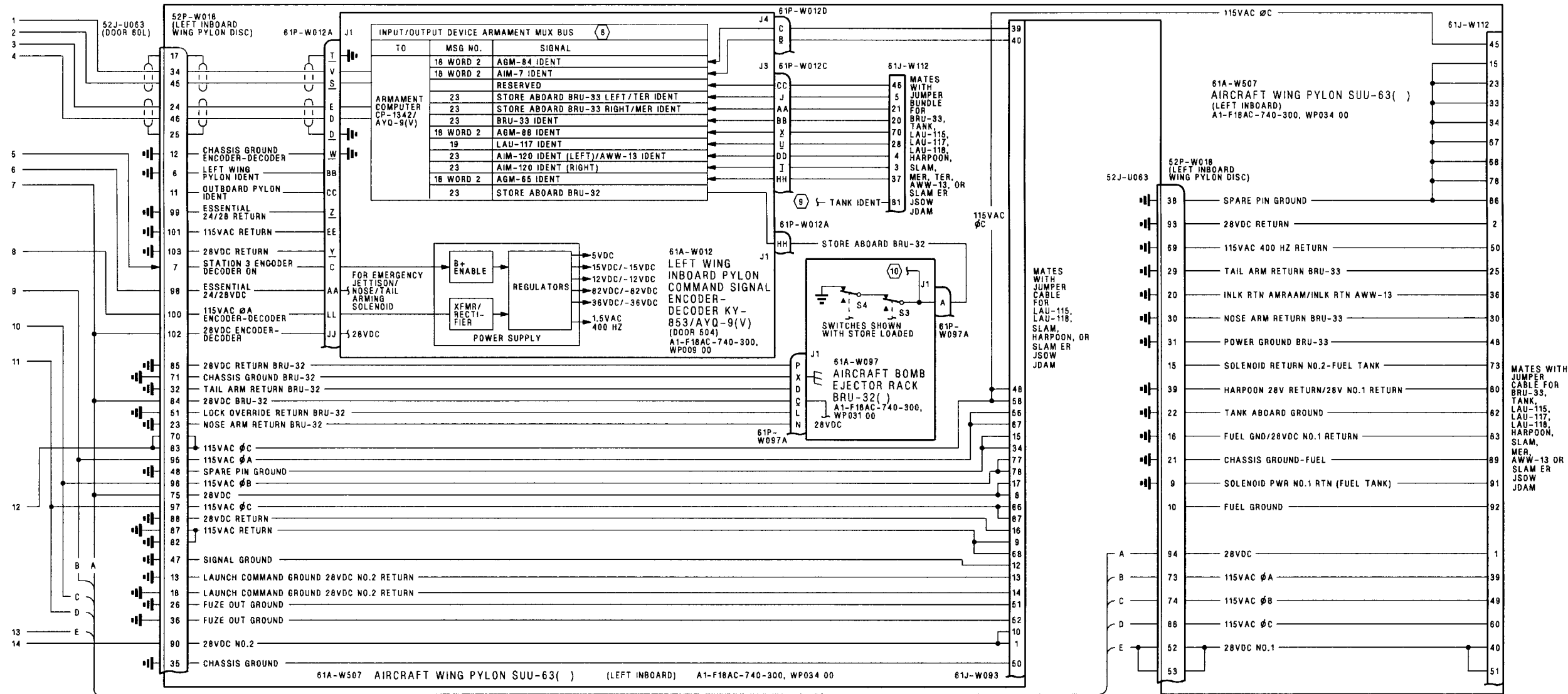


Figure 1.

Figure 1. Weapon Station 3 Power Control Schematic (Sheet 2)

28030102
Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. ARMAMENT MUX BUS DATA, WP010 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
9. EXTERNAL FUEL TANK SCHEMATIC, WP013 00.
10. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 4 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 4 Power Control Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	029 01
Weapon Station 4 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	029 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 4 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

None

- 1. INTRODUCTION.**
for the launcher and encoder-decoder that controls the weapon station.
- The schematic in this work package shows the power requirements for weapon station 4. The schematic shows all the power to the weapon station
- The location of the components on this schematic can be seen in WP008 00.

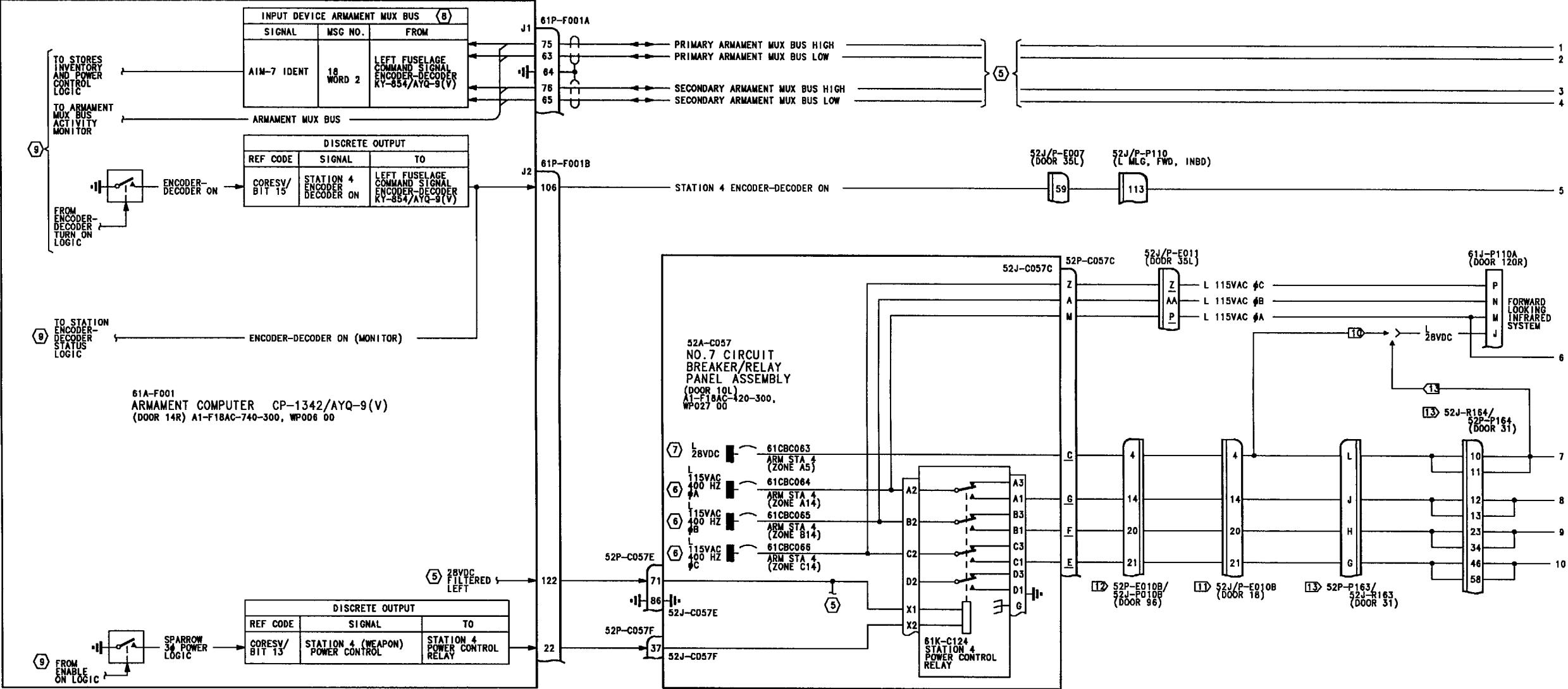


Figure 1.

Figure 1.



29010102
Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS. SEE WP002 01.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. ARMAMENT MUX BUS DATA, WP010 00.
9. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
10. 161353 THRU 161987.
11. F/A-18A.
12. F/A-18B.
13. 162445 AND UP.

Figure 1. Weapon Station 4 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 4 POWER CONTROL****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.****This WP supersedes WP029 02, dated 1 November 2001.**

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the power requirements for weapon station 4. The schematic shows all the power to the weapon station,

racks, and the encoder-decoder that controls the weapon station.

3. The location of the components on this schematic can be seen in WP008 00.

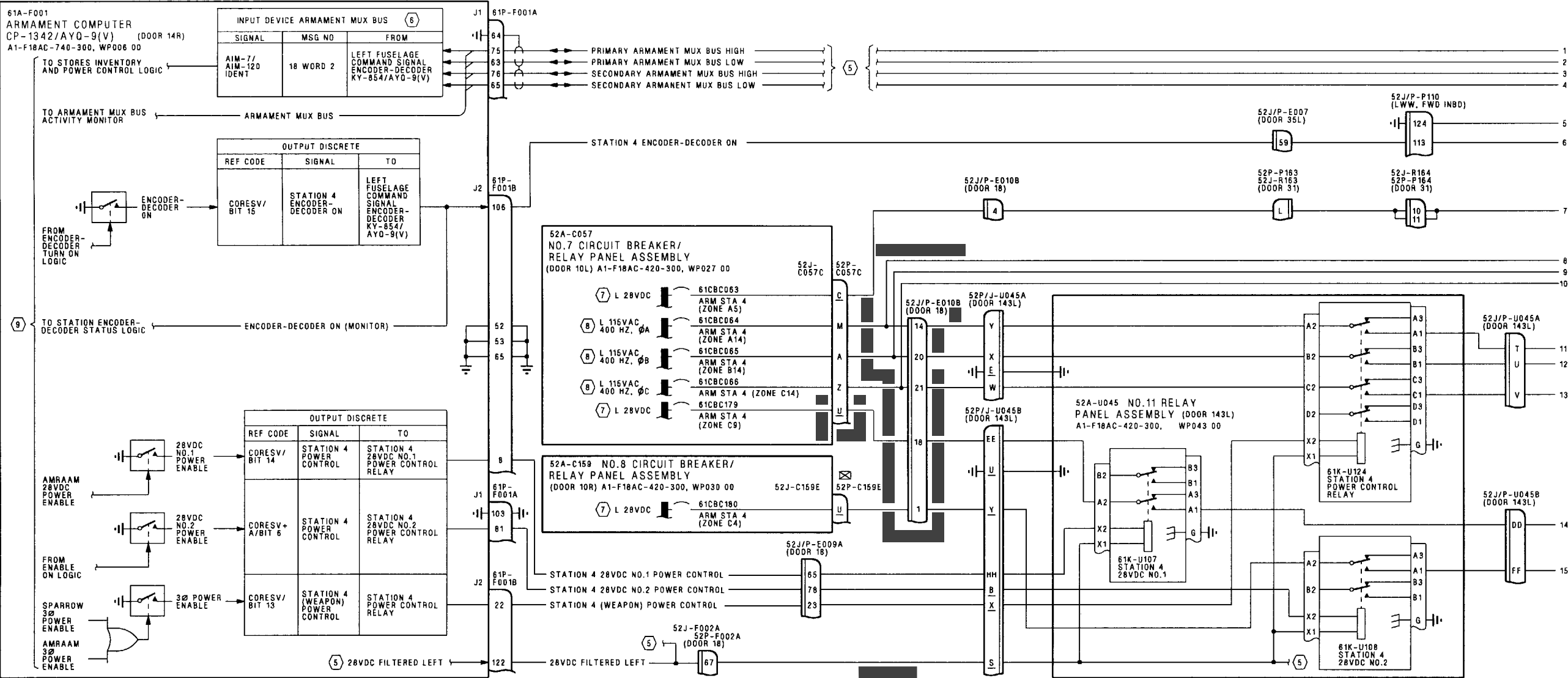


Figure 1.

Figure 1. Weapon Station 4 Power Control Schematic (Sheet 1)

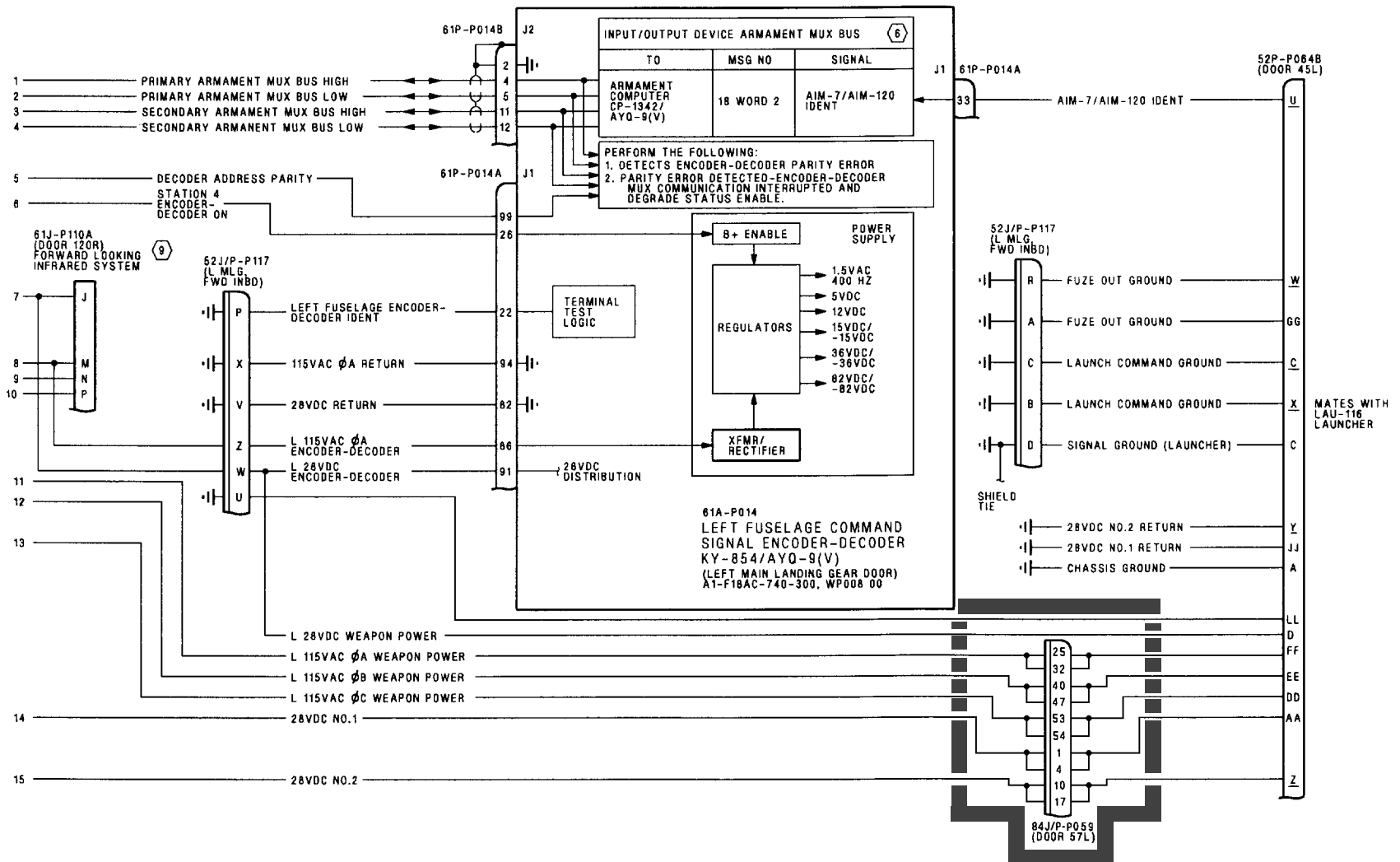


Figure 1.

Figure 1. Weapon Station 4 Power Control Schematic (Sheet 2)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ☒). MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
-
4. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 6. ARMAMENT MUX BUS DATA, WP010 00.
 7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 8. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 9. POWER SCHEMATIC A1-F18AC-744-500, WP006 00.

Figure 1. Weapon Station 4 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 5 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 5 Power Control Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	030 01
Weapon Station 5 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	030 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 5 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA-F/A-18-00090)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION.
2. The schematic in this work package shows the power requirements for weapon station 5. The schematic shows all the power to the weapon station,
- launcher/racks and the encoder-decoder that controls the weapon station.
3. The location of the components on this schematic can be seen in WP008 00.

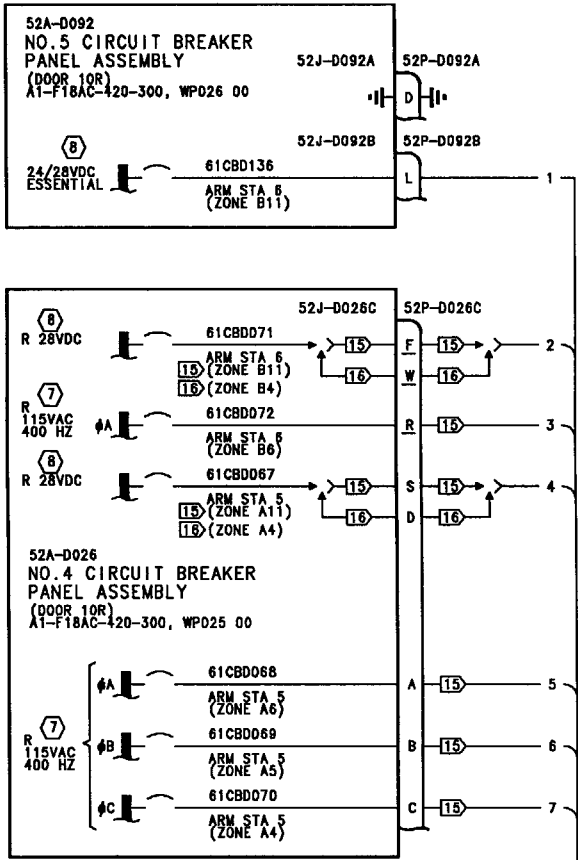


Figure 1.

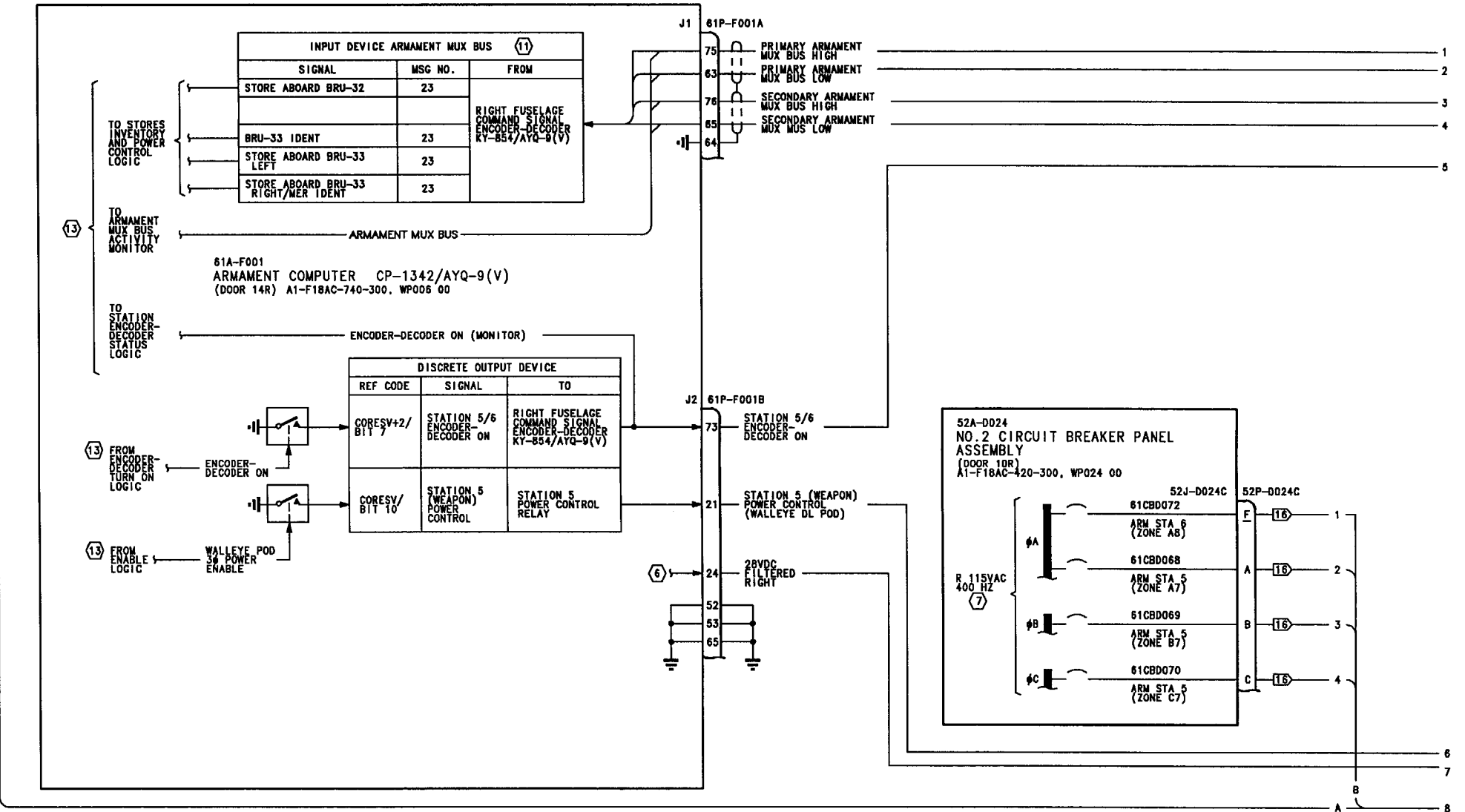


Figure 1. Weapon Station 5 Power Control Schematic (Sheet 1)

Figure 1.

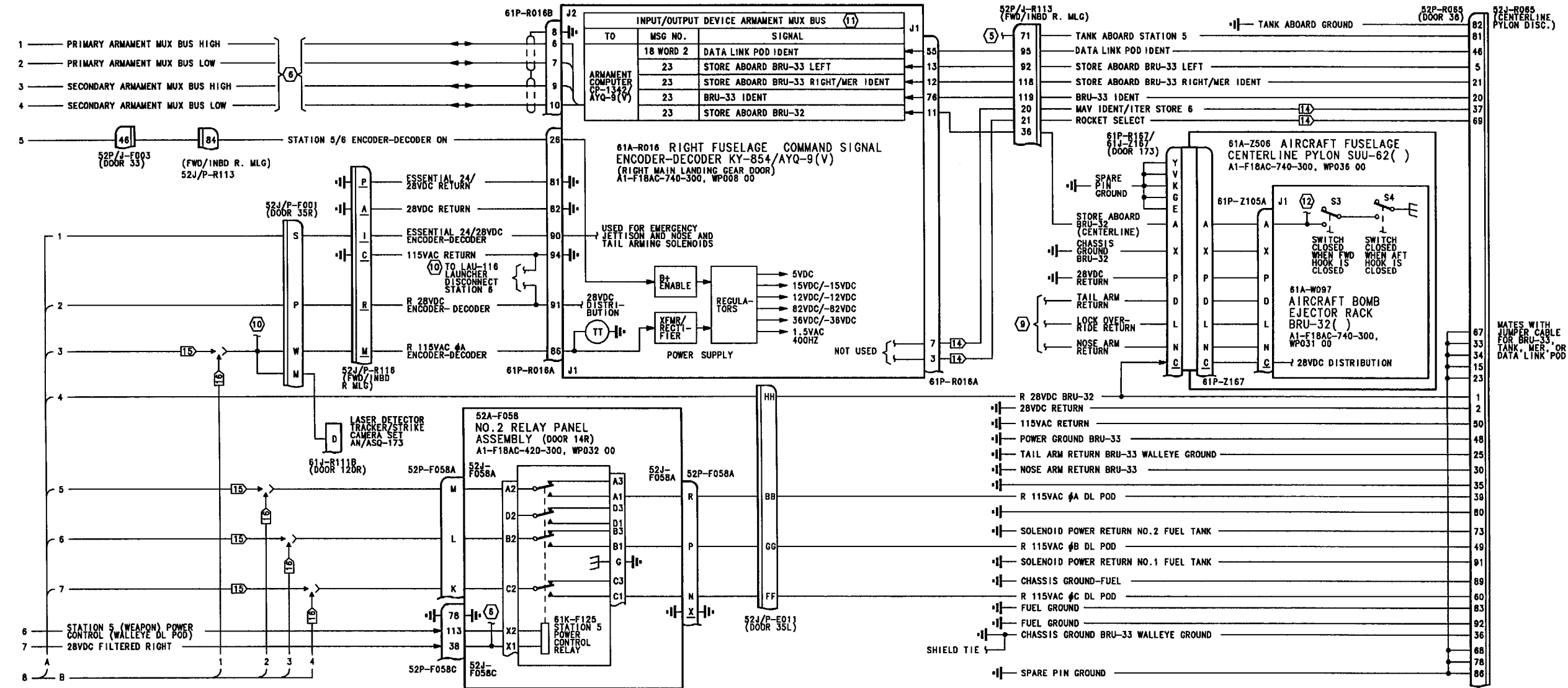


Figure 1.

Figure 1. Weapon Station 5 Power Control Schematic (Sheet 2)

Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS: SEE WP002 01.
5. EXTERNAL FUEL TANK SCHEMATIC, WP013 00.
6. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
7. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
8. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
9. WEAPON STATION 5 BOMB SCHEMATIC, WP061 00.
10. WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00.
11. ARMAMENT MUX BUS DATA, WP010 00.
12. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
13. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
14. 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.
15. 161353 THRU 161359.
16. 161360 AND UP.

Figure 1. Weapon Station 5 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 5 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the power requirements for weapon station 5. The schematic shows all the power to the weapon station,
3. The location of the components on this schematic can be seen in WP008 00.
- launcher/racks and the encoder-decoder that controls the weapon station.

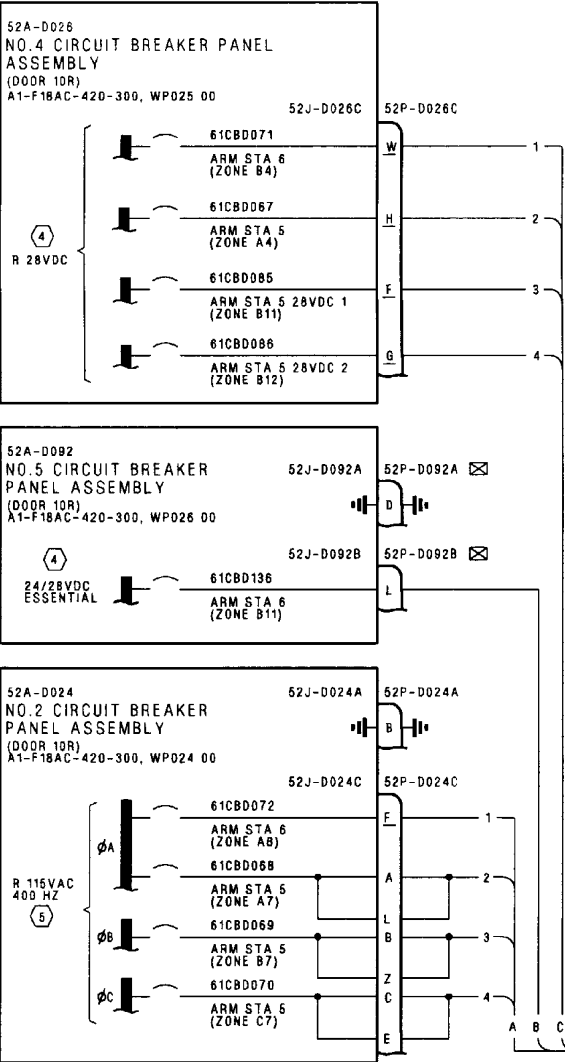


Figure 1.

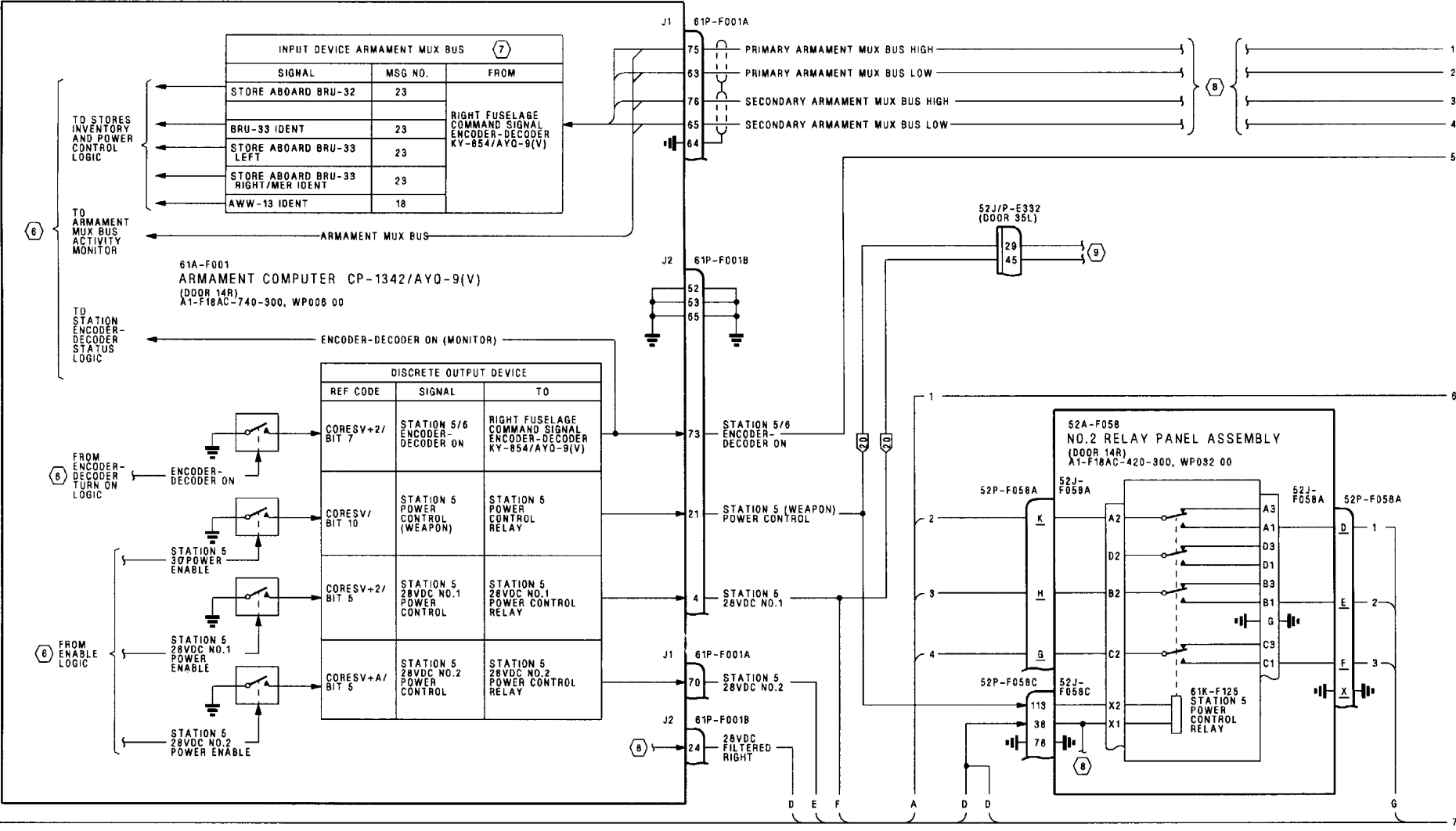


Figure 1. Weapon Station 5 Power Control Schematic (Sheet 1)

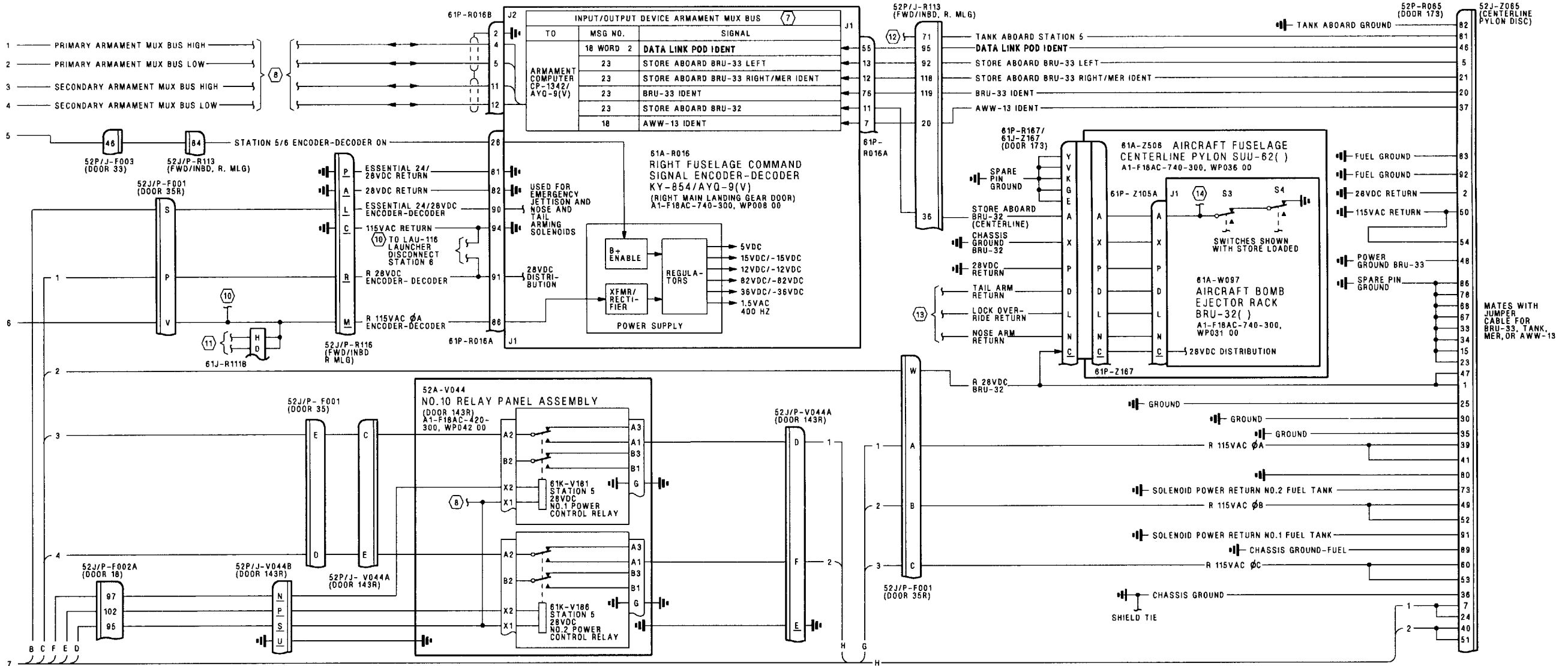


Figure 1.

Figure 1. Weapon Station 5 Power Control Schematic (Sheet 2)

Figure 1.

LEGEND

1.

NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.


2.

CONTINUITY TEST:

A.

ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000.

B.

WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCIETY FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.

C.

WHEN TESTING CONTINUITY, TEST FOR:

(1)

SHORTS TO GROUND.

(2)

SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.


(3)

SHORTS BETWEEN SHIELD AND CONDUCTORS.

(4)

SHIELD CONTINUITY.

D.

WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ) , MAKE SURE MULTIMETER LEADS/ JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.

3.

LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.

4

DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.

5

AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.

6

WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.

7

ARMAMENT MUX BUS DATA, WP010 00.

8

ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.

9

RECONNAISSANCE SYSTEM INTERCONNECT SCHEMATIC, A1-F18AC-770-500, WP015 00.

10

WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00.

11

POWER CONTROL SCHEMATIC A1-F18AC-743-500, WP005 00.

12

EXTERNAL FUEL TANK SCHEMATIC, WP013 00.

13

WEAPON STATION 5 BOMB/MINE SCHEMATIC, WP061 00.

14

LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
- Figure 1.

Figure 1. Weapon Station 5 Power Control Schematic (Sheet 3)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 6 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 6 Power Control Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	031 01
Weapon Station 6 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	031 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 6 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

None

- | | |
|---|--|
| 1. INTRODUCTION. | launcher and the encoder-decoder that controls the weapon station. |
| 2. The schematic in this work package shows the power requirements for weapon station 6. The schematic shows all power to the weapon station, | 3. The location of the components on this schematic can be seen in WP008 00. |

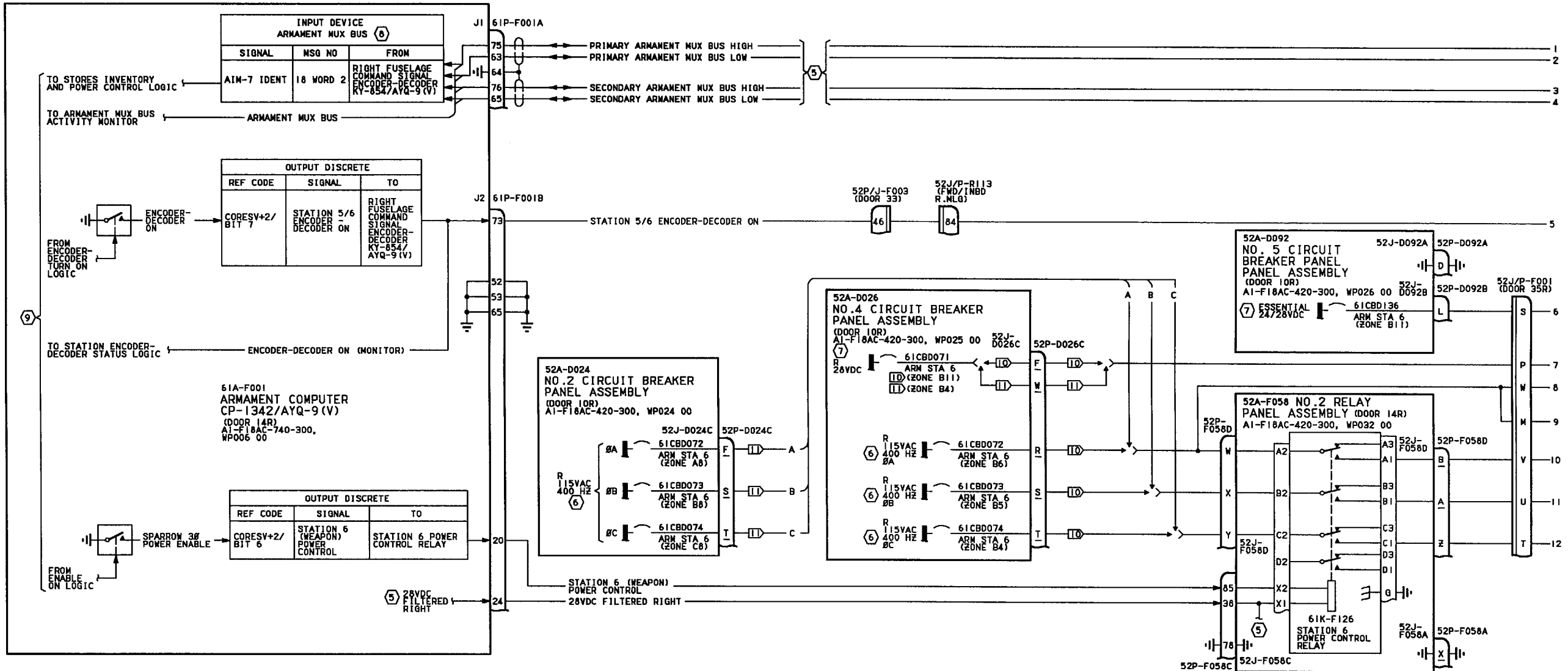


Figure 1.

Figure 1. Weapon Station 6 Power Control Schematic (Sheet 1)

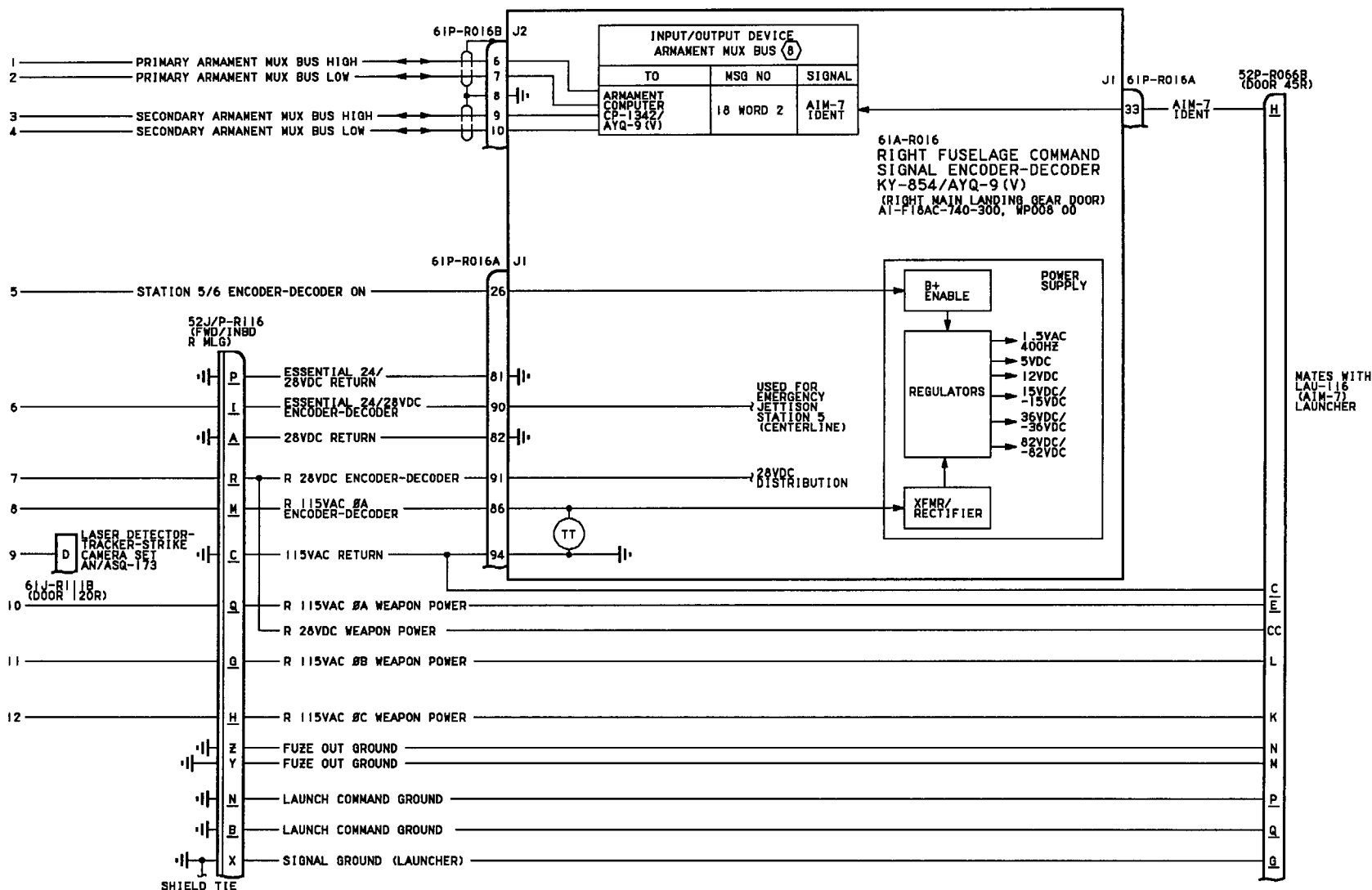


Figure 1.

Figure 1. Weapon Station 6 Power Control Schematic (Sheet 2)

Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS: SEE WP002 01.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. ARMAMENT MUX BUS DATA, WP010 00.
9. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
10. 161353 THRU 161359.
11. 161360 AND UP.

Figure 1. Weapon Station 6 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 6 POWER CONTROL****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.****This WP supersedes WP031 02, dated 1 November 2001.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

launcher and the encoder-decoder that controls the weapon station.

2. The schematic in this work package shows the power requirements for weapon station 6. The schematic shows all the power to the weapon station,

3. The location of the components on this schematic can be seen in WP008 00.

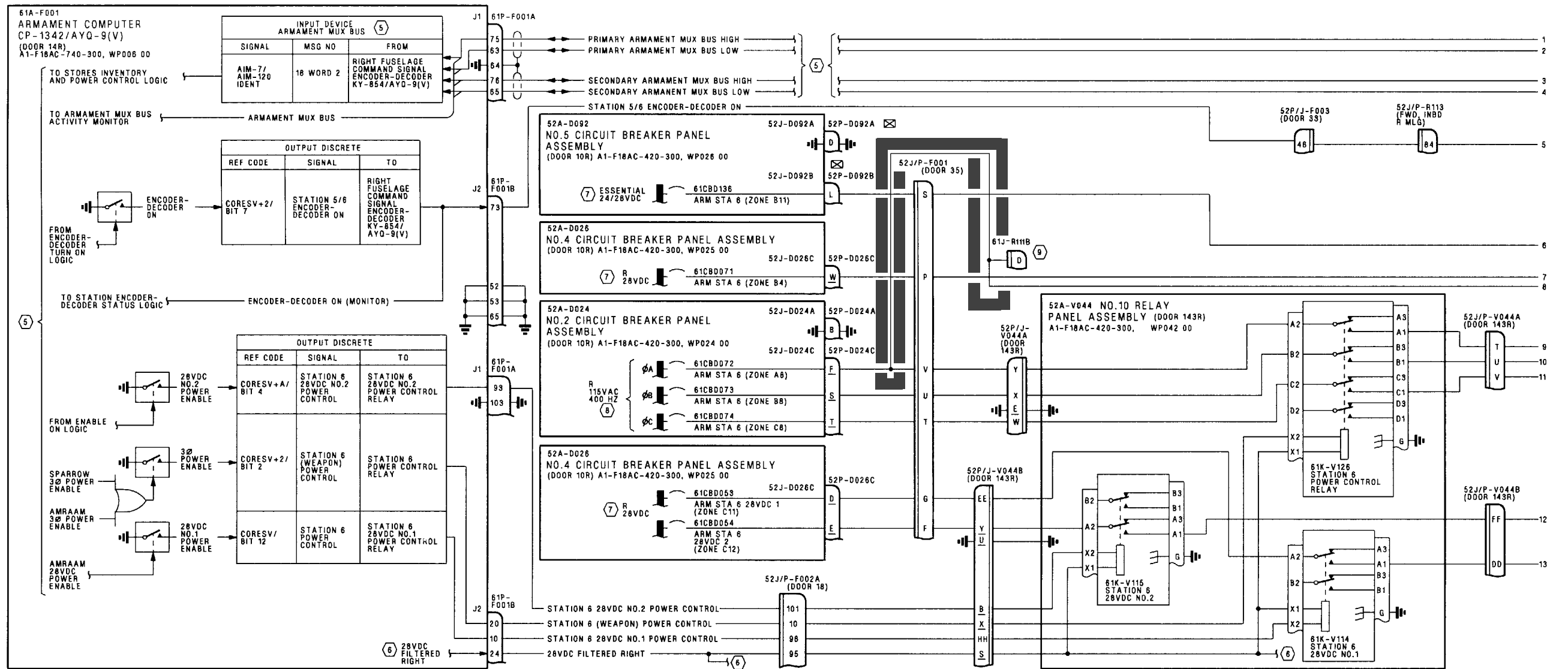


Figure 1.

Figure 1. Weapon Station 6 Power Control Schematic (Sheet 1)

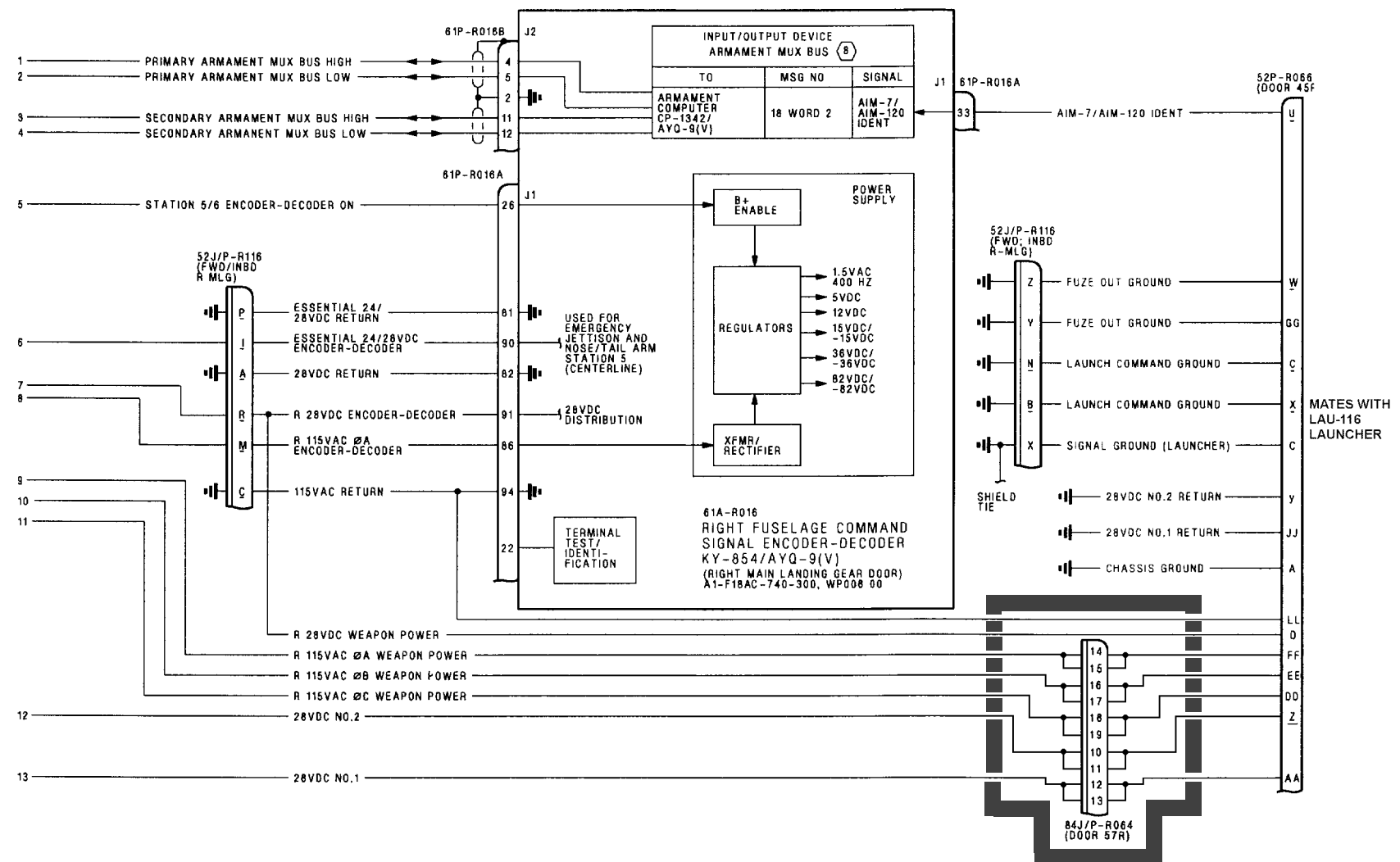


Figure 1. Weapon Station 6 Power Control Schematic (Sheet 2)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
5. ARMAMENT MUX BUS DATA, WP010 00.
6. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
9. LDT POWER CONTROL SCHEMATIC A1-F18AC-743-500, WP005 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 7 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 7 Power Control Schematic - 161353 THRU 161987 BEFORE F/A-18 AFC 74	032 01
Weapon Station 7 Power Control Schematic - 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74	032 02
Weapon Station 7 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	032 03

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 7 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 THRU 161987 BEFORE F/A-18 AFC 74.

Reference Material

None

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Record of Applicable Technical Directives

None

- | | |
|---|--|
| 1. INTRODUCTION. | racks, and encoder-decoder that controls the weapon station. |
| 2. The schematic in this work package shows the power requirements for weapon station 7. The schematic shows all the power to the weapon station, | 3. The location of the components on this schematic can be seen in WP008 00. |

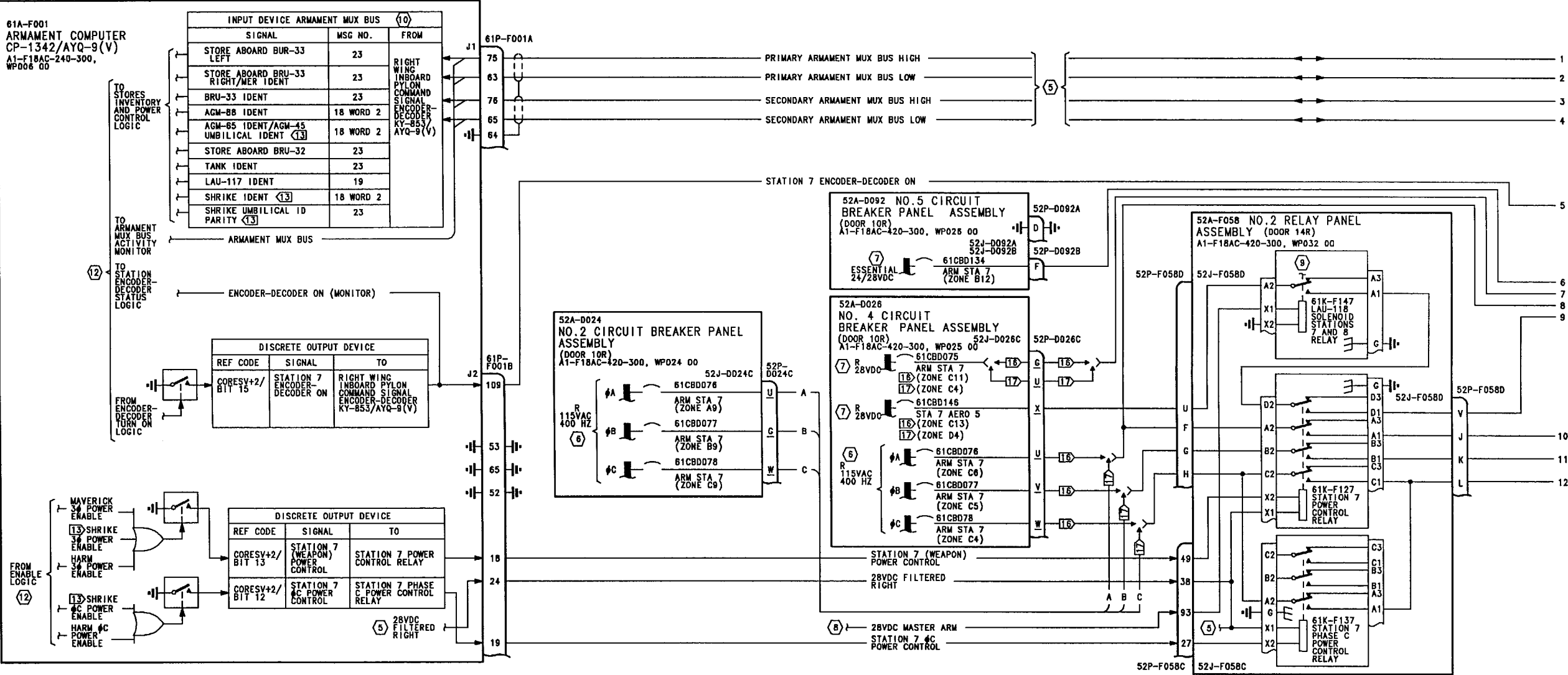


Figure 1.

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 1)

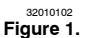


Figure 1. Weapon Station 7 Power Control Schematic (Sheet 2)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01.
-
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 8. MASTER ARM SCHEMATIC, WP017 00.
 9. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
 10. ARMAMENT MUX BUS DATA, WP010 00.
 11. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
 12. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 01.
 13. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM-000).
 14. F/A-18A.
 15. F/A-18B.
 16. 161353 THRU 161359.
 17. 161360 AND UP.

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 7 POWER CONTROL

STORES MANAGEMENT SYSTEM

**EFFECTIVITY: 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292;
ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
E/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA-F/A-18-00090)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION

2. The schematic in this work package shows the power requirements for weapon station 7. The schematic shows all the power to the weapon station,

racks, and encoder-decoder that controls the weapon station.

3. The location of the components on this schematic can be seen in WP008 00.

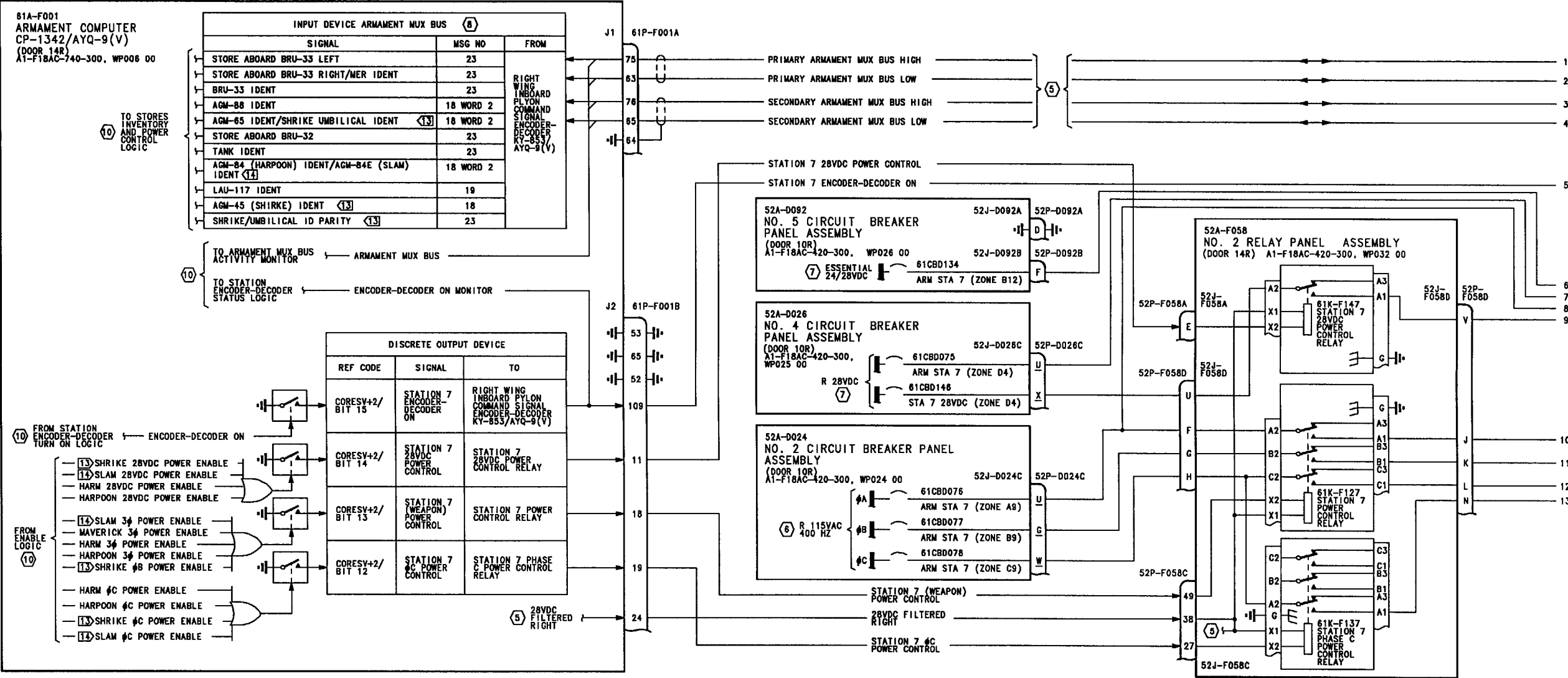


Figure 1.

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 1)



Figure 1.

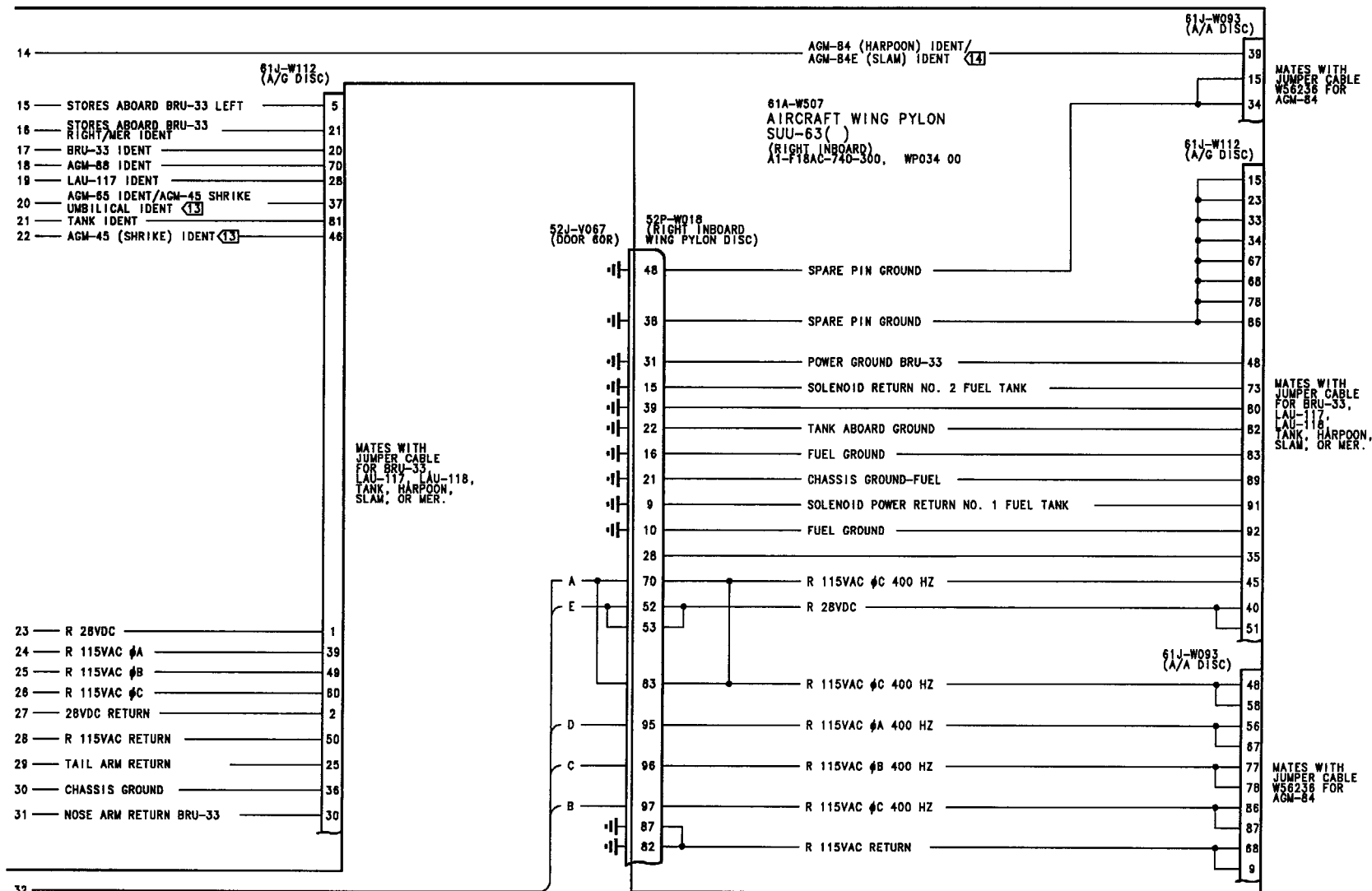


Figure 1.

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 3)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
-
- 4** WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
- 5** ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
- 6** ARMAMENT MUX BUS DATA, WP010 00.
- 7** DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
- 8** AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
- 9** EXTERNAL FUEL TANK SCHEMATIC, WP013 00.
- 10** LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
- 11** F/A-18A
- 12** F/A-18B
- 13** WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85+ AND UP (A1-F18AC-SCM-000).
- 14** WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 4)

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 7 POWER CONTROL****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.****This WP supersedes WP032 03, dated 1 November 2001.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

racks, and encoder-decoder that controls the weapon station.

2. The schematic in this work package shows the power requirements for weapon station 7. The schematic shows all the power to the weapon station,

3. The location of the components on this schematic can be seen in WP008 00.

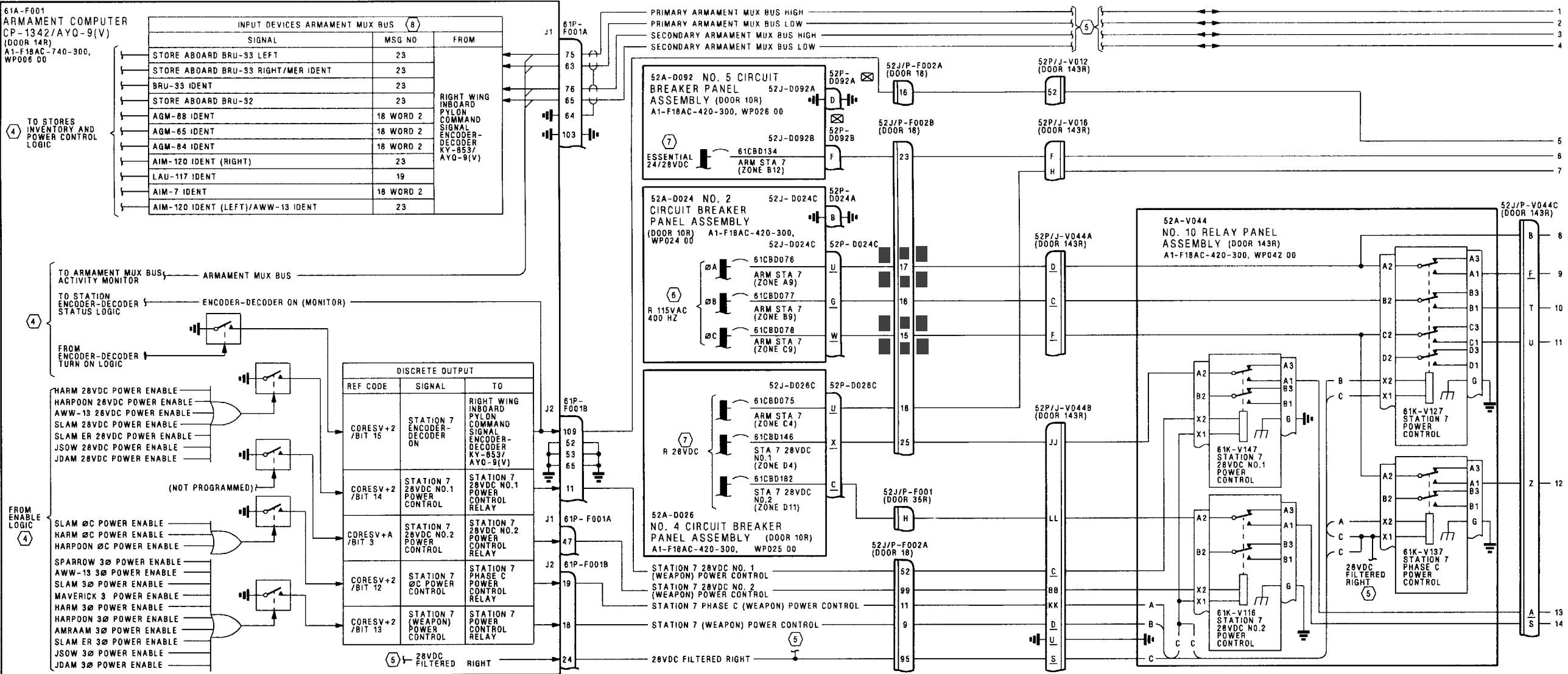


Figure 1.

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 1)

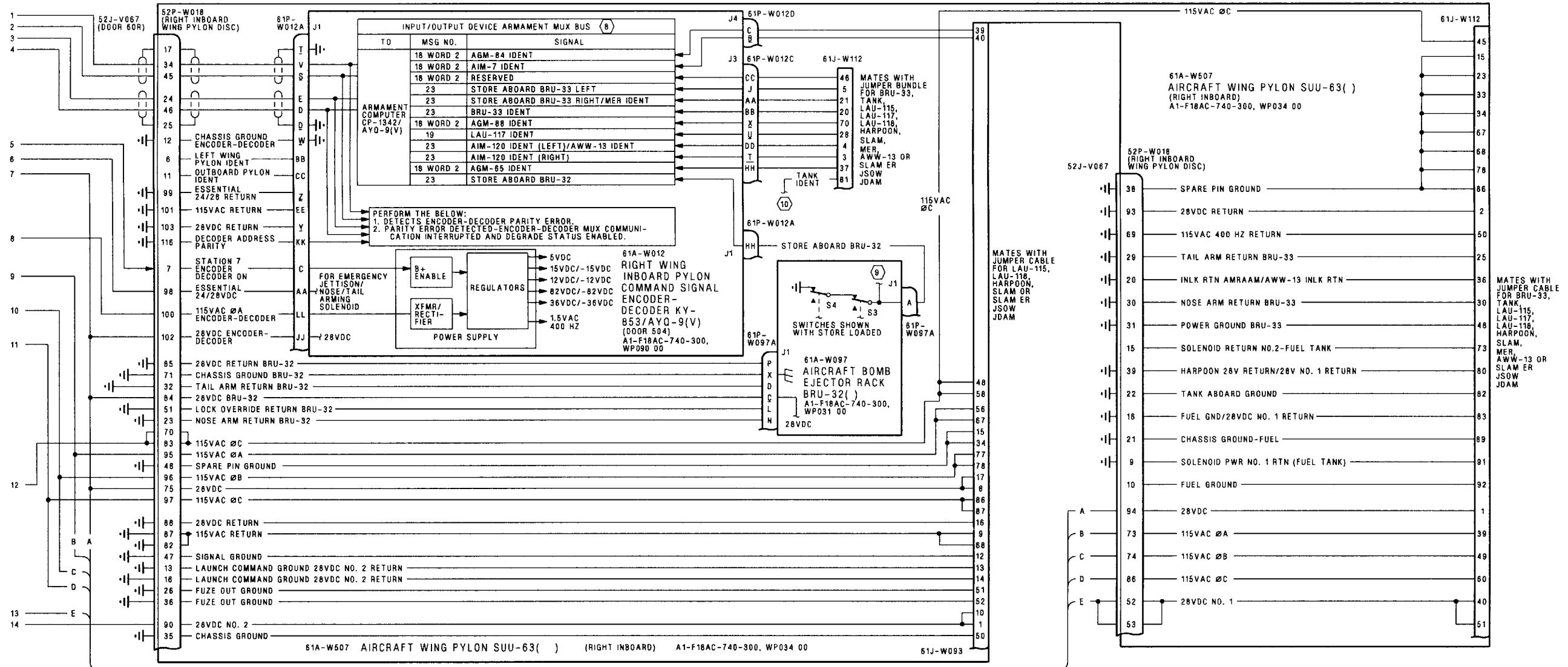


Figure 1.

Figure 1. Weapon Station 7 Power Control Schematic (Sheet 2)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
8. ARMAMENT MUX BUS DATA, WP010 00.
9. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
10. EXTERNAL FUEL TANK SCHEMATIC, WP013 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 8 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 8 Power Control Schematic - 161353 THRU 161987 BEFORE F/A-18 AFC 74	033 01
Weapon Station 8 Power Control Schematic - 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74	033 02
Weapon Station 8 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	033 03

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 8 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 THRU 161987 BEFORE F/A-18 AFC 74.

Reference Material

None

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Record of Applicable Technical Directives

None

- 1. INTRODUCTION.**
launchers/racks, and the encoder-decoder that controls the weapon station.
- The schematic in this work package shows the power requirements for weapon station 8. The schematic shows all the power to the weapon station,
- The location of the components on this schematic can be seen in WP008 00.



Figure 1.



Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01.
-
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 8. WEAPON STATION 7 AGM-88 HARM SCHEMATIC, WP055 00.
 9. ARMAMENT MUX BUS DATA, WP010 00.
 10. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
 11. MASTER ARM SCHEMATIC, WP017 00.
 12. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 13. WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM-000).
 14. F/A-18A.
 15. F/A-18B.
 16. 161353 THRU 161359.
 17. 161360 AND UP.

Figure 1. Weapon Station 8 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 8 POWER CONTROL

STORES MANAGEMENT SYSTEM

**EFFECTIVITY: 162394 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292;
ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA-F/A-18-00090)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION.

2. The schematic in this work package shows the power requirements for weapon station 8. The schematic shows all the power to the weapon station,

launchers/racks and the encoder-decoder that controls the weapon station.

3. The location of the components on this schematic can be seen in WP008 00.



Figure 1.

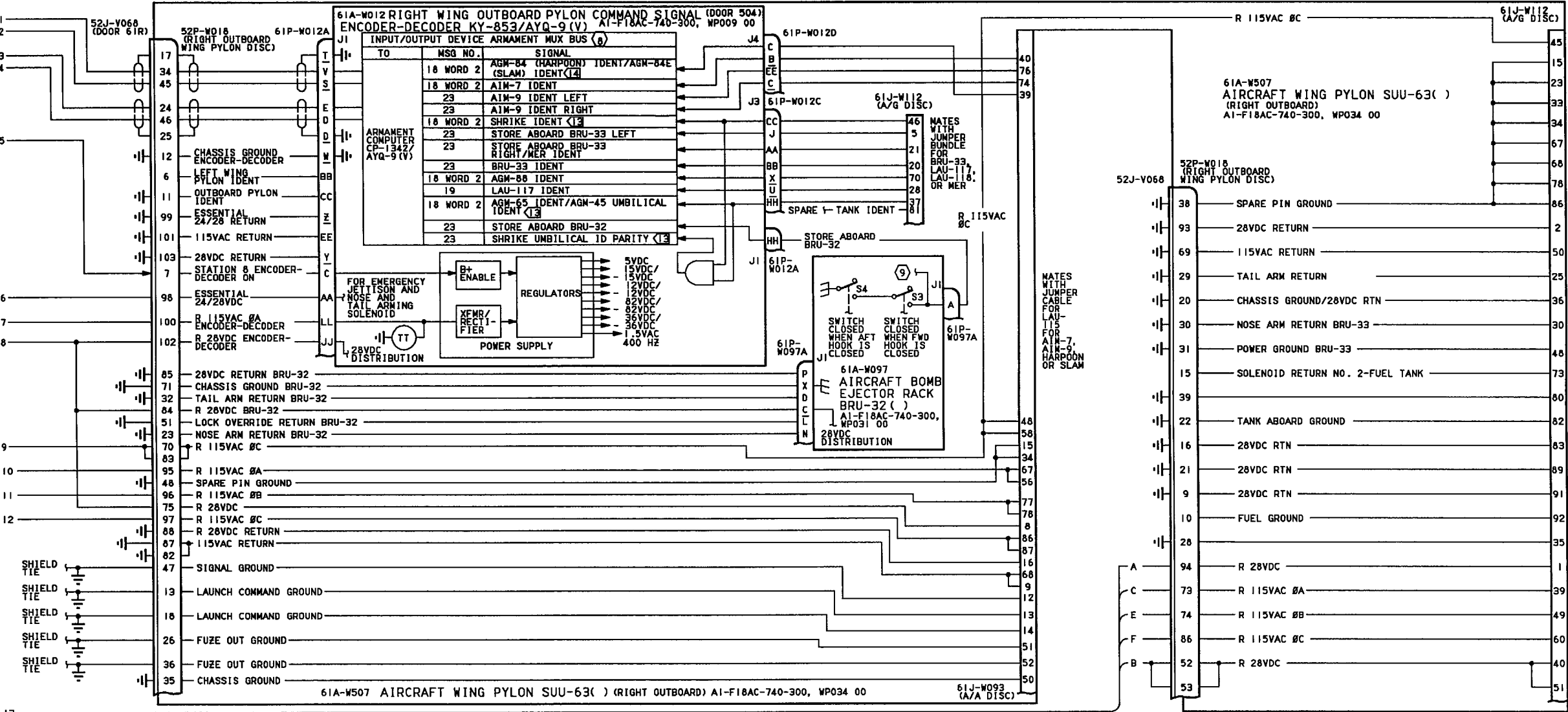


Figure 1.

Figure 1. Weapon Station 8 Power Control Schematic (Sheet 2)

LEGEND













1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - E. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ) MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01.
-
-  ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 -  AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 -  DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 -  ARMAMENT MUX BUS DATA, WP010 00.
 -  LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
 -  WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 -  11 F/A-18A.
 -  12 F/A-18B.
 -  13 WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM-000).
 -  14 WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).

Figure 1. Weapon Station 8 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 8 POWER CONTROL****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.****This WP supersedes WP033 03, dated 1 November 2001.**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the power requirements for weapon station 8. The schematic shows all the power to the weapon station,

racks, and encoder-decoder that controls the weapon station.

3. The location of the components on this schematic can be seen in WP008 00.

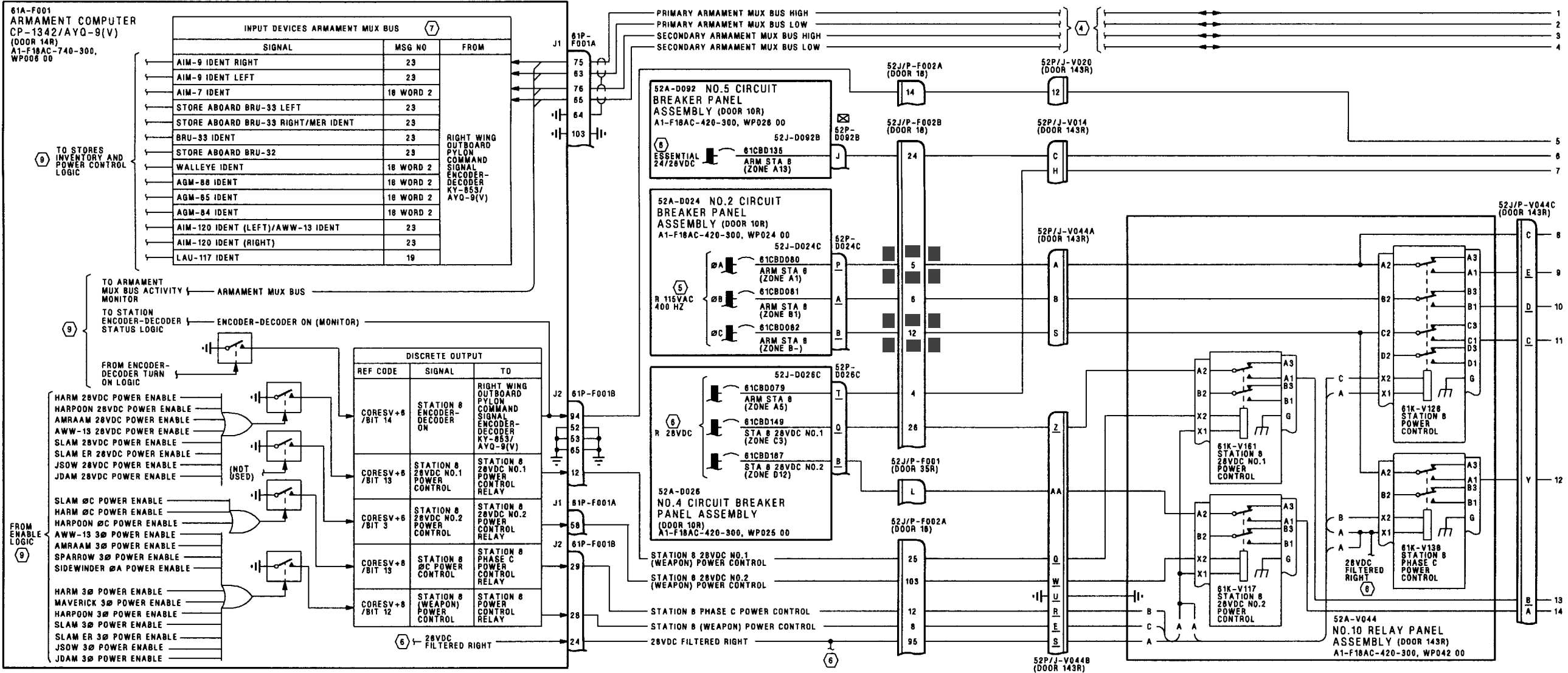


Figure 1.

Figure 1. Weapon Station 8 Power Control Schematic (Sheet 1)



Figure 1. Weapon Station 8 Power Control Schematic (Sheet 2)

Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
5. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
6. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
7. ARMAMENT MUX BUS DATA, WP010 00.
8. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
9. WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 9 POWER CONTROL

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 9 Power Control Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	034 01
Weapon Station 9 Power Control Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	034 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 9 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Weapon Station 9 Power Control Schematic, Figure 1	2

Record of Applicable Technical Directives

None

- 1. INTRODUCTION.**
launcher, and encoder-decoder that controls the weapon station.
- The schematic in this work package shows the power requirements for weapon station 9. The schematic shows all power to the weapon station,
- The location of the components on this schematic can be seen in WP008 00.

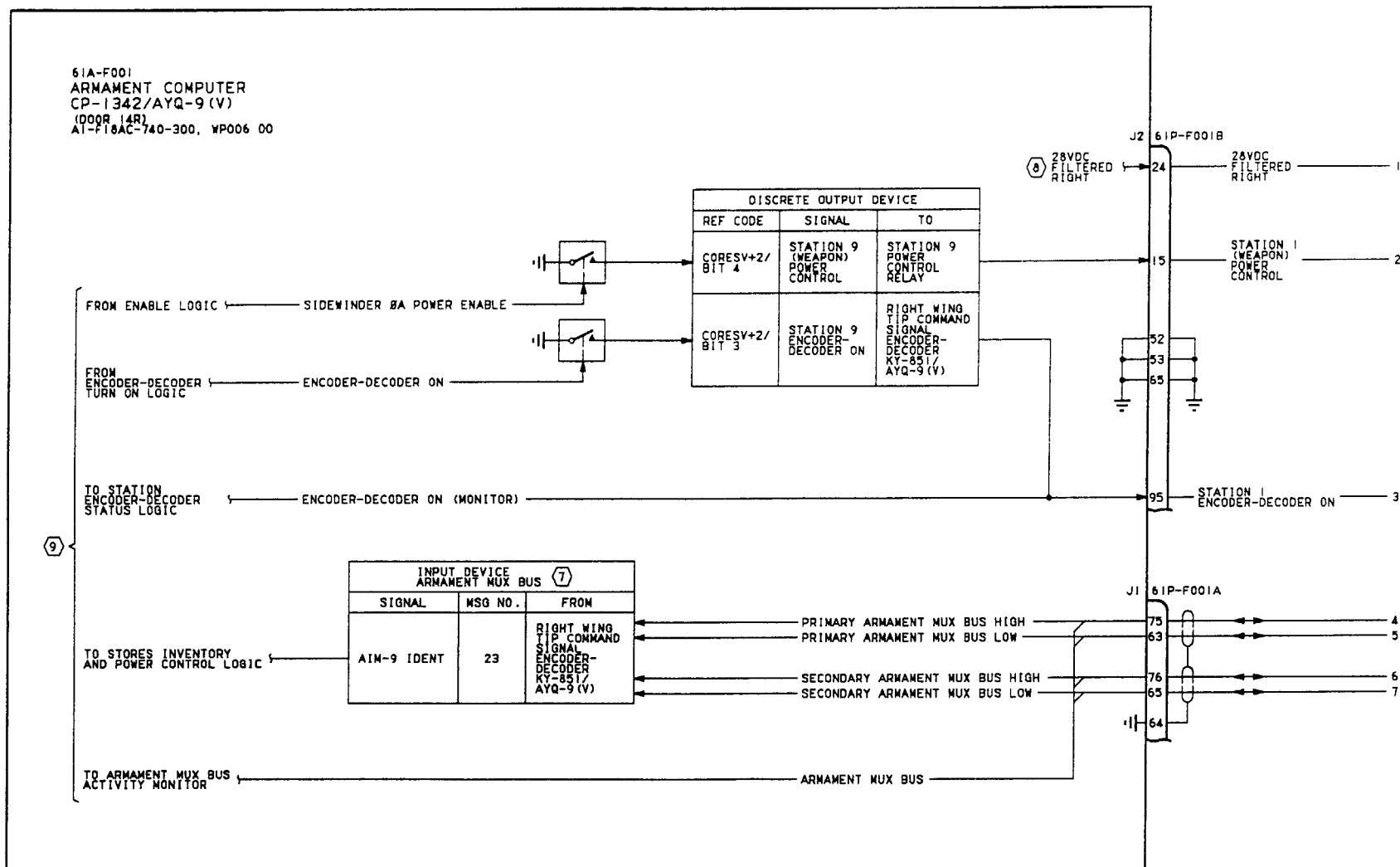


Figure 1.

Figure 1. Weapon Station 9 Power Control Schematic (Sheet 1)

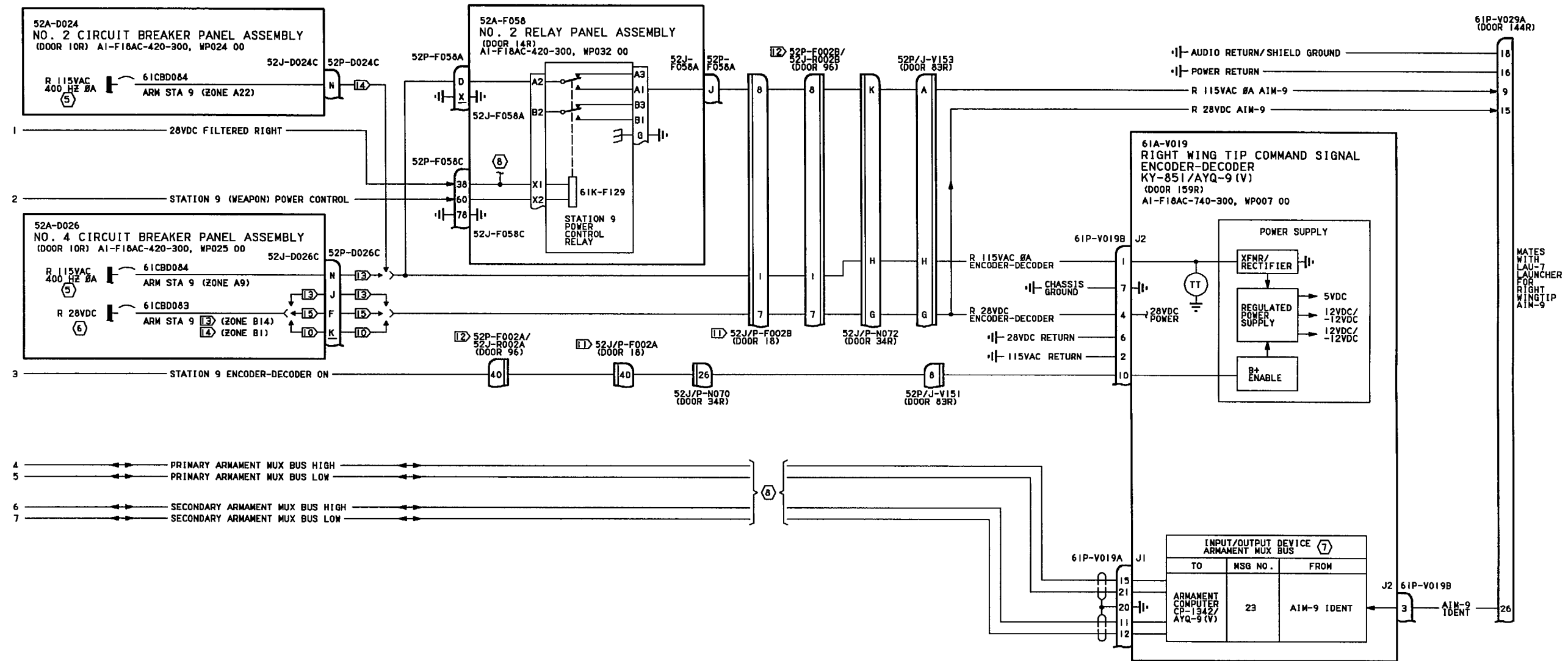


Figure 1.

Figure 1. Weapon Station 9 Power Control Schematic (Sheet 2)

LEGEND

1. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX 1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 2. NONSTANDARD SYMBOLS: SEE WP002 01.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01.
-
- ⑤ AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 - ⑥ DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 - ⑦ ARMAMENT MUX BUS DATA, WP010 00.
 - ⑧ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 - ⑨ WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 - 10 161702 AND UP.
 - 11 F/A-18A.
 - 12 F/A-18B.
 - 13 161353 THRU 161359.
 - 14 161360 AND UP.
 - 15 161360 THRU 161528.

Figure 1. Weapon Station 9 Power Control Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 9 POWER CONTROL

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Weapon Station 9 Power Control Schematic, Figure 1	2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the power requirements for weapon station 9. The schematic shows all the power to the weapon station, launcher, and encoder-decoder that controls the weapon station.
3. The location of the components on this schematic can be seen in WP008 00.

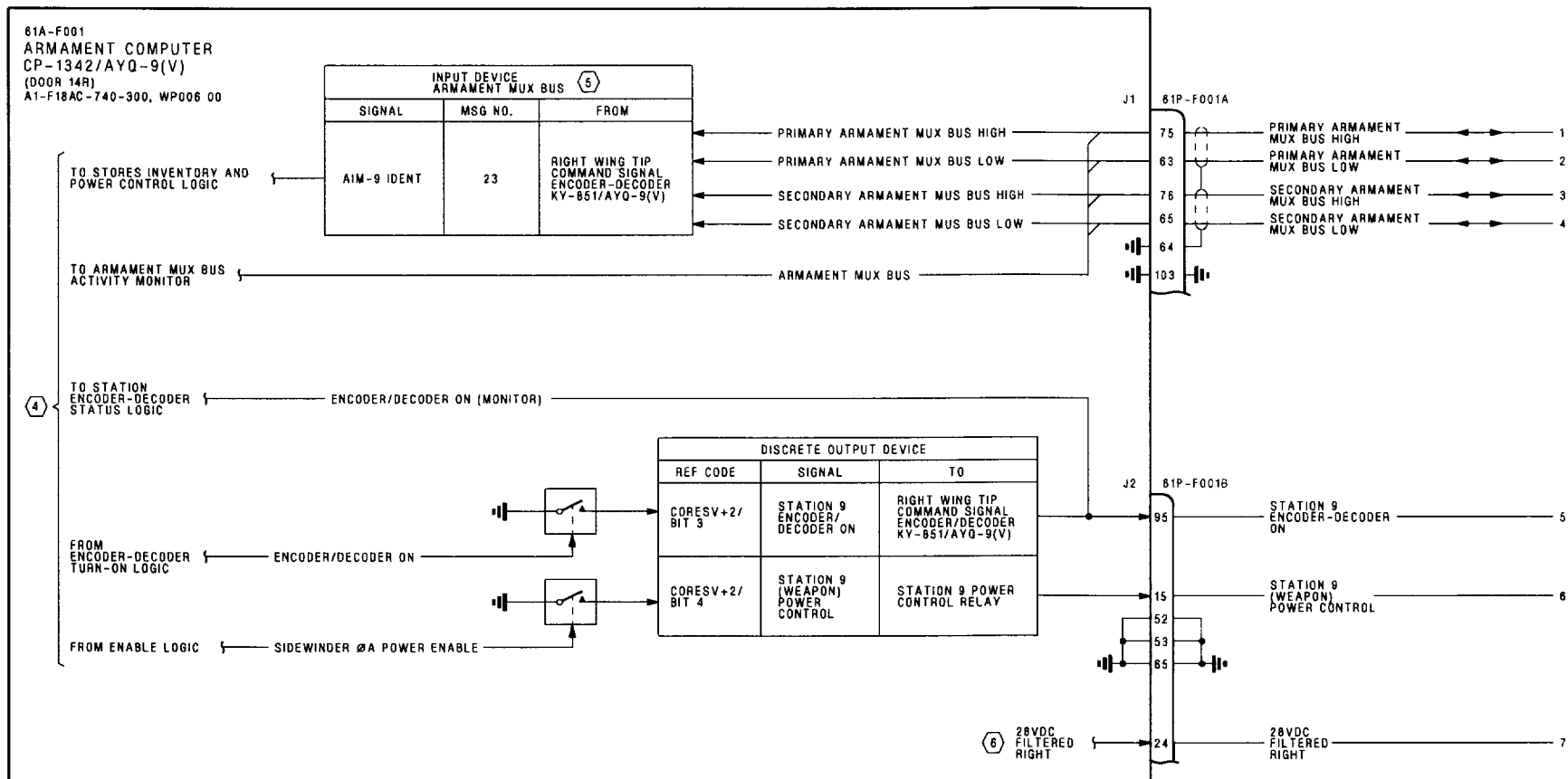


Figure 1.

Figure 1. Weapon Station 9 Power Control Schematic (Sheet 1)



Figure 1. Weapon Station 9 Power Control Schematic (Sheet 2)

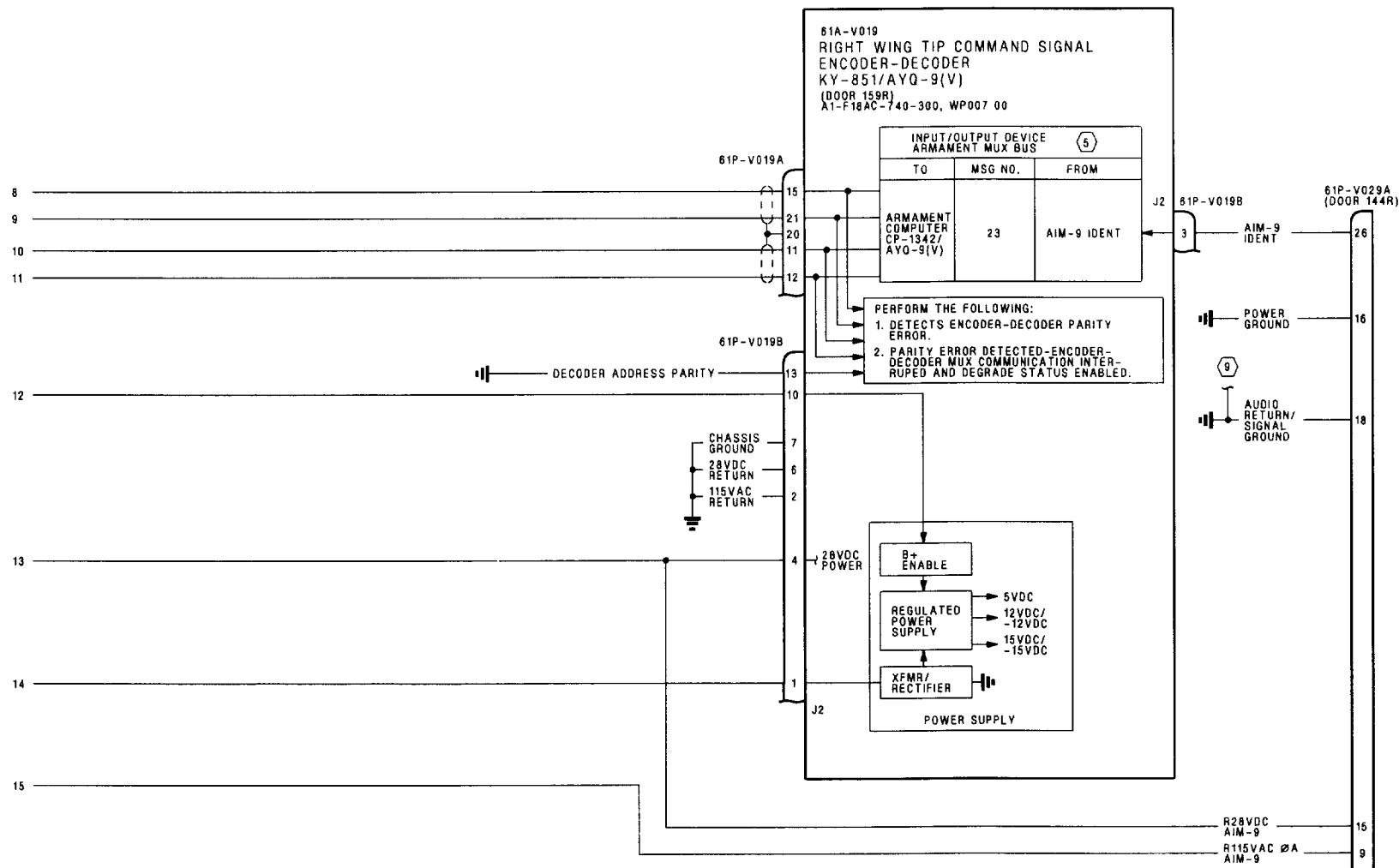


Figure 1.

Figure 1. Weapon Station 9 Power Control Schematic (Sheet 3)

Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE RX1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
-
- ④ WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
 - ⑤ ARMAMENT MUX BUS DATA, WP010 00.
 - ⑥ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 - ⑦ DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 - ⑧ AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 - ⑨ WEAPON STATION 1 AND 9 AIM-9 SIDEWINDER SCHEMATIC, WP046 00.

Figure 1. Weapon Station 9 Power Control Schematic (Sheet 4)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC WEAPON STATION POWER CONTROL INTERFACE

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station Power Control Interface Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	035 01
Weapon Station Power Control Interface Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	035 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION POWER CONTROL INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC-27	-	Leading Edge Flap/Control Stick Changes (ECP MDA-F/A-18-00044)	1 Sep 86	ECP Coverage Only
F/A-18 AFC-74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA-F/A-18-00090)	1 Dec 89	ECP Coverage Only
F/A-18 AFC-48	-	Automatic AC BUS Isolation, Incorporation of (ECP MDA-F/A-18-00121)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION.

a. Weapon Station 1 Power Control Schematic
(WP026 00)

b. Weapon Station 2 Power Control Schematic
(WP027 00)

c. Weapon Station 3 Power Control Schematic
(WP028 00)

2. The schematics in this work package show the power control functions that interface with all weapon stations. This schematic supplements the schematics listed below:

d. Weapon Station 4 Power Control Schematic
(WP029 00)

e. Weapon Station 5 Power Control Schematic
(WP030 00)

f. Weapon Station 6 Power Control Schematic
(WP031 00)

g. Weapon Station 7 Power Control Schematic
(WP032 00)

h. Weapon Station 8 Power Control Schematic
(WP033 00)

i. Weapon Station 9 Power Control Schematic
(WP034 00)

3. The location of the components on this
schematic can be seen in WP008 00.

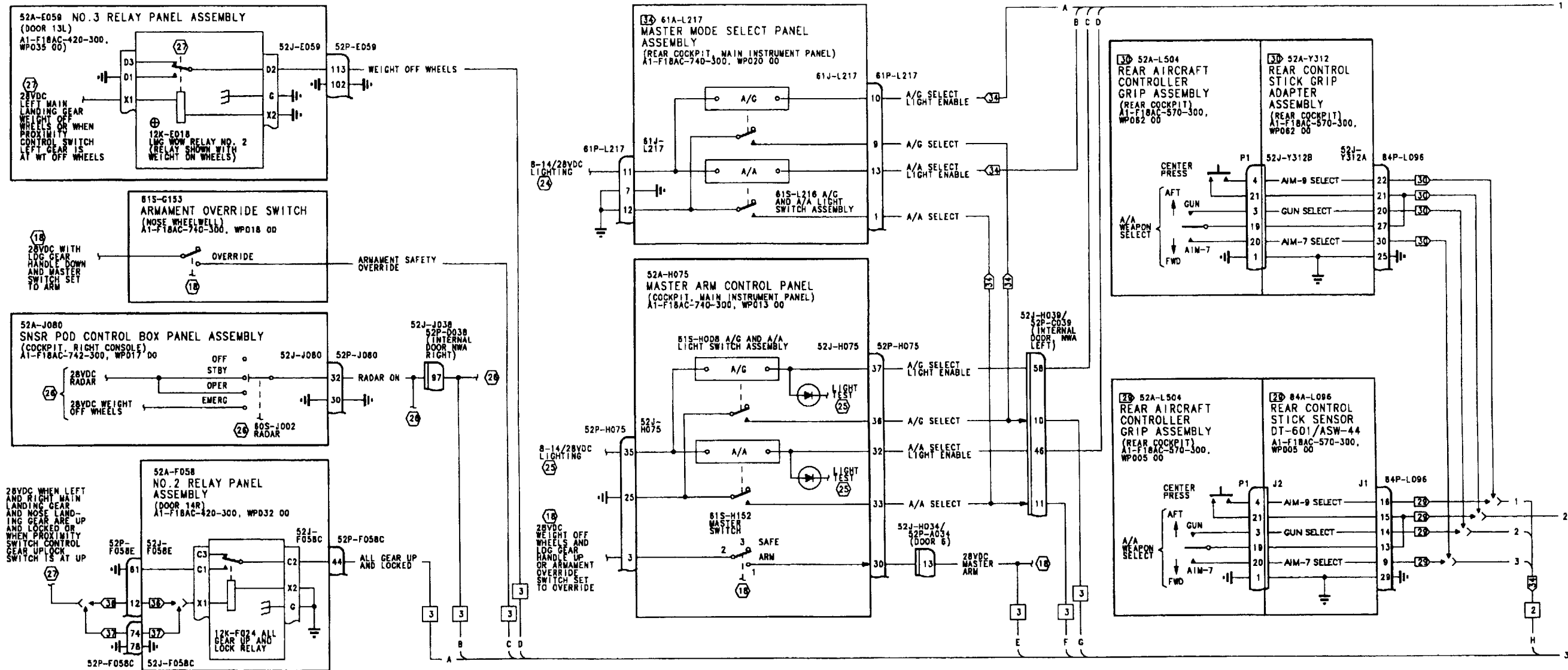


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 1)

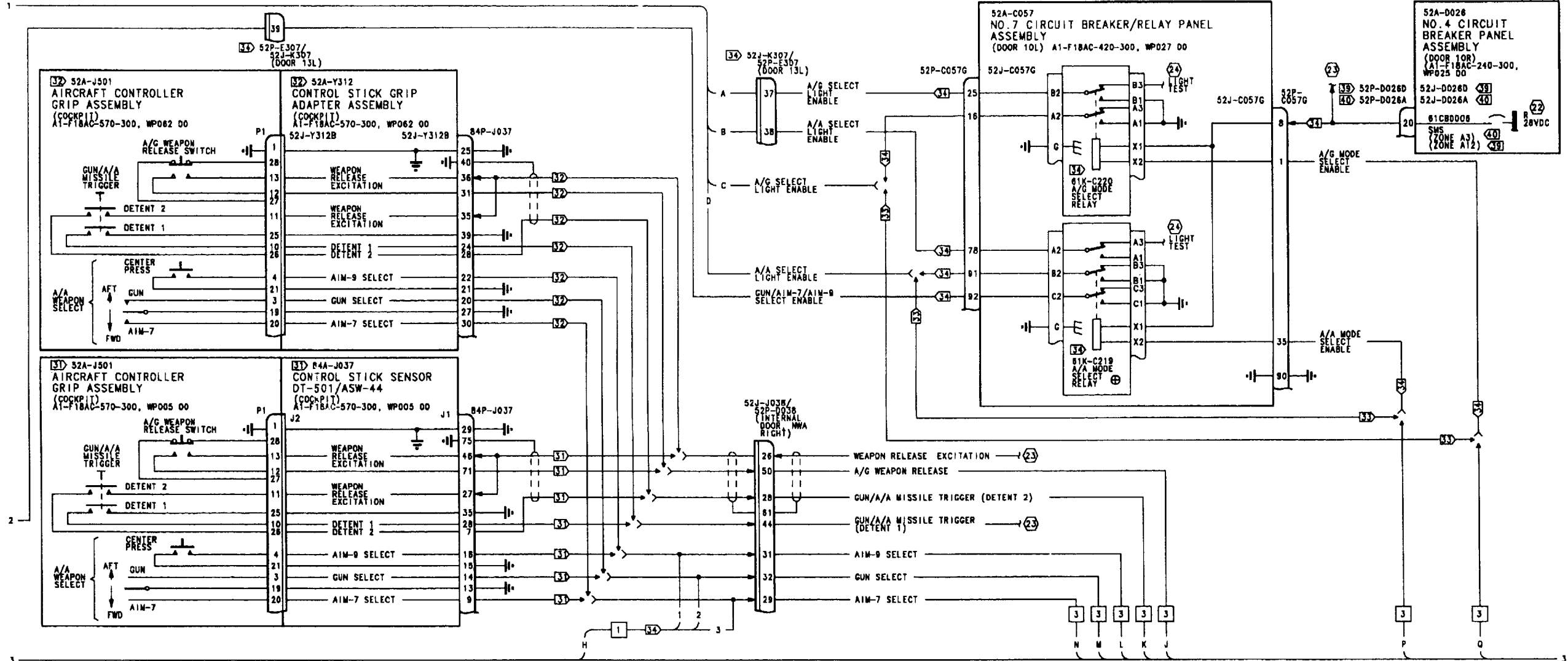


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 2)

Figure 1.

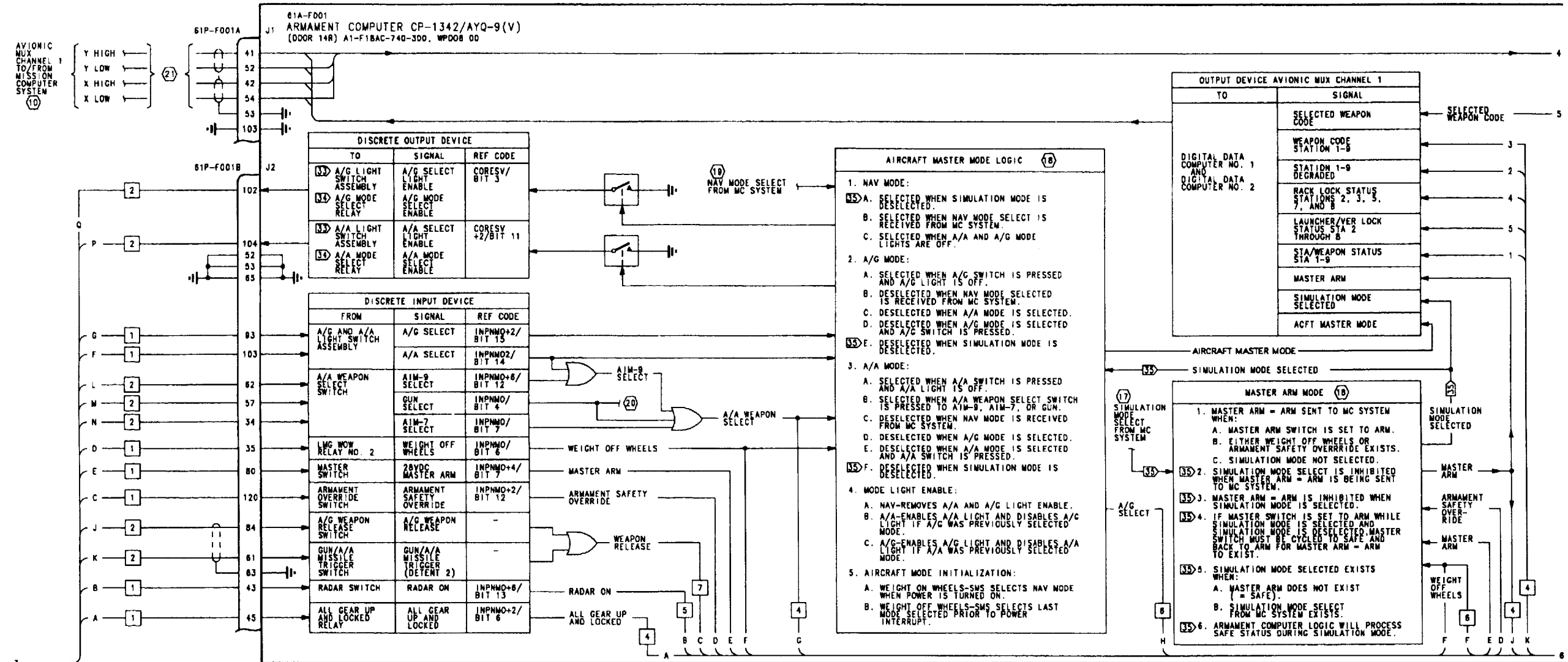


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 3)

Figure 1.

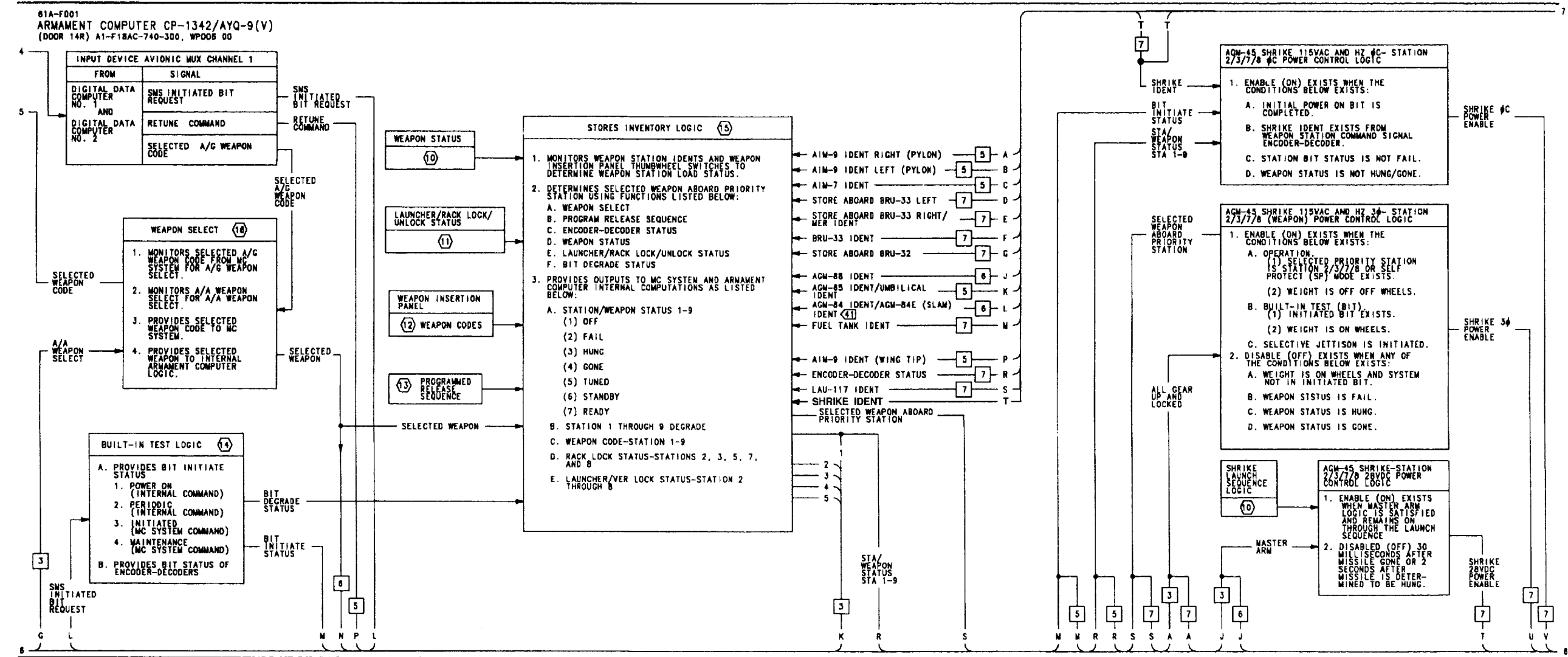


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 4)

Figure 1.

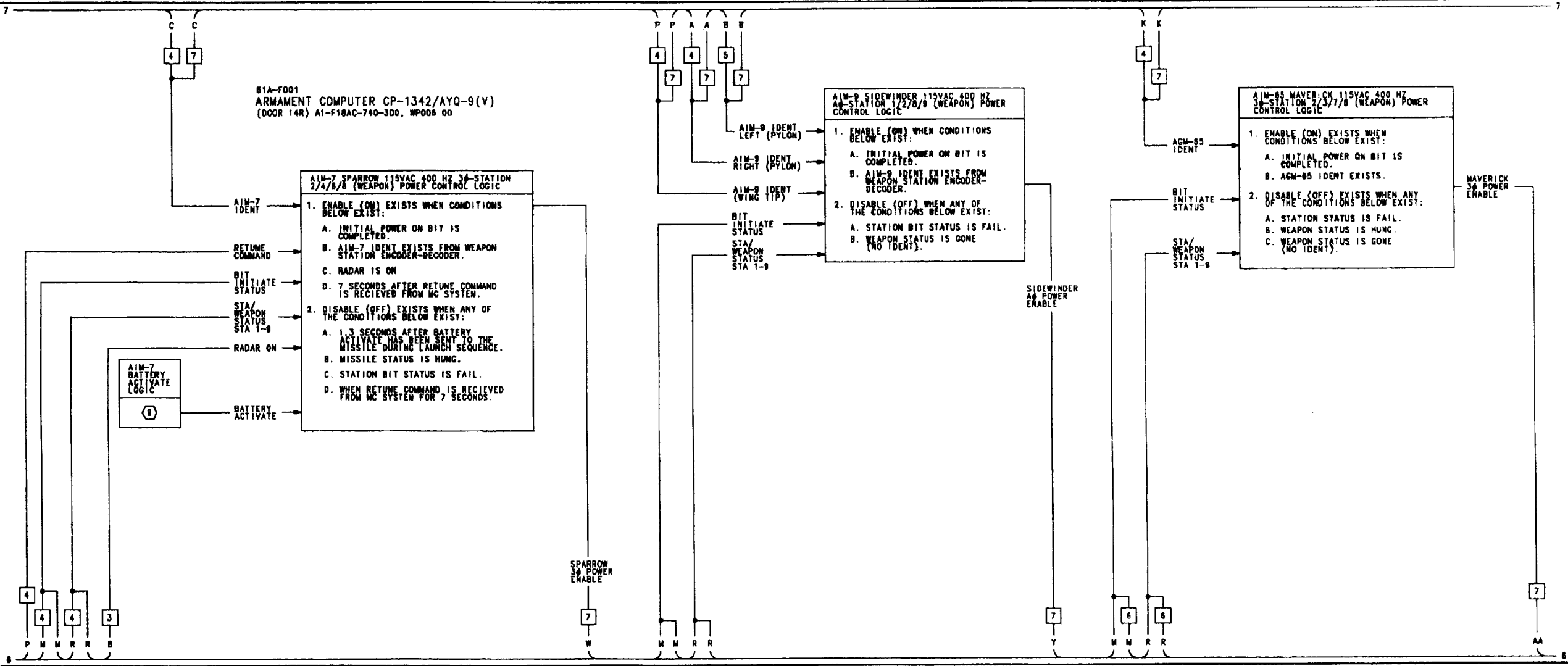


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 5)

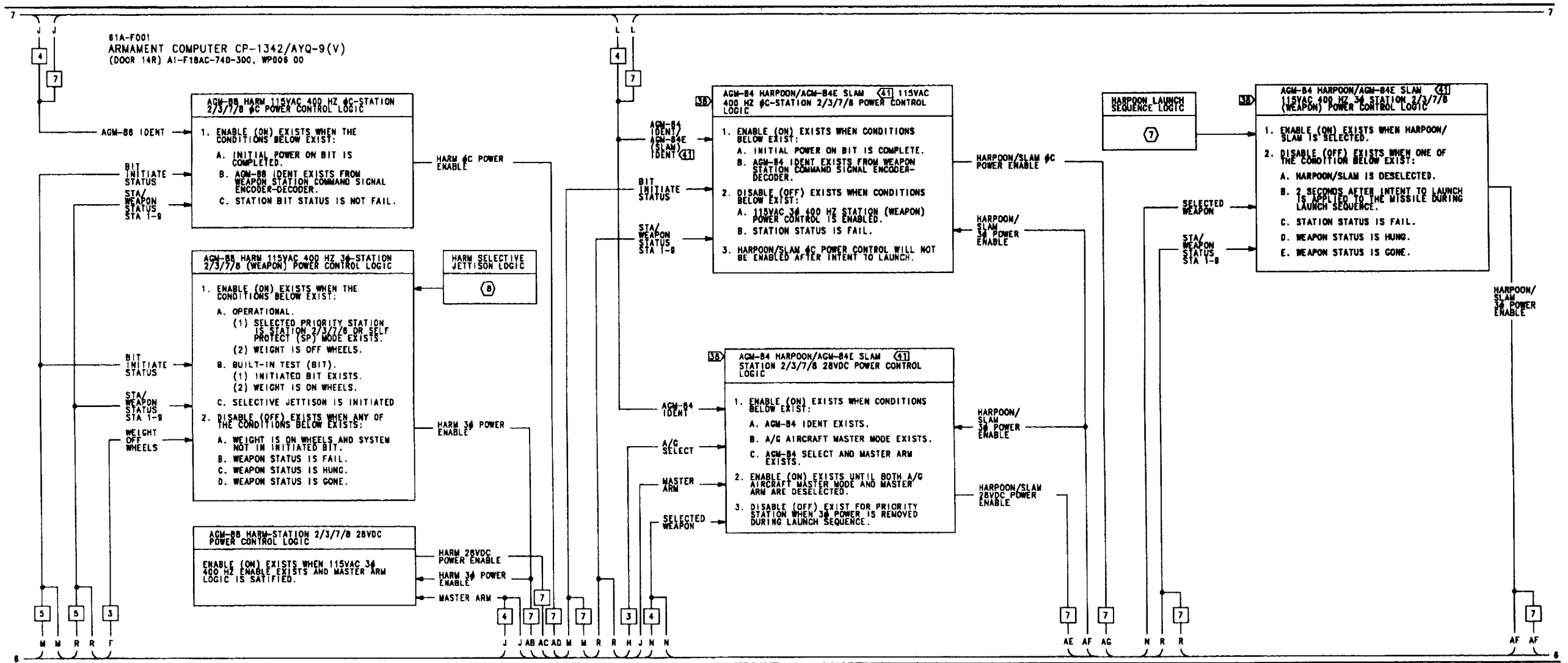


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 6)

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Figure 1.

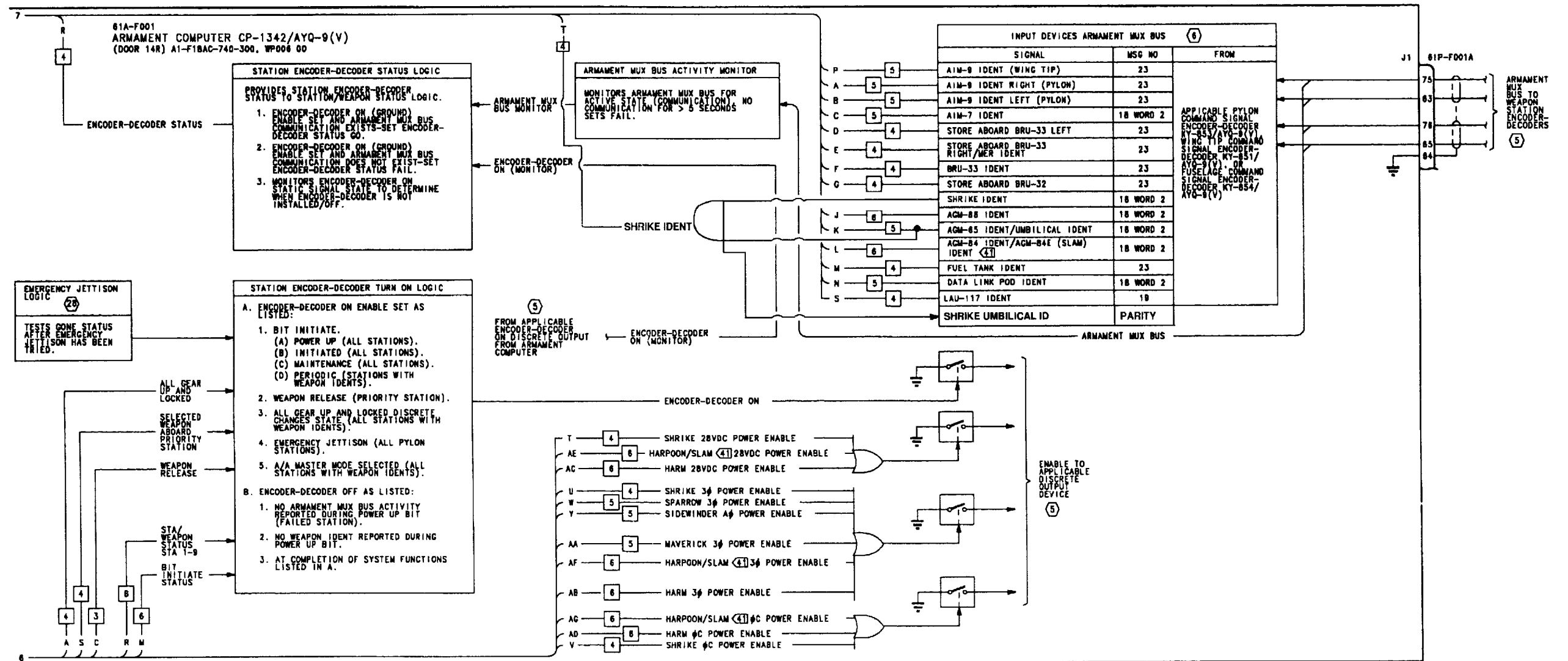


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 7)

LEGEND			
1.	NONSTANDARD SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:		
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000.	10	APPLICABLE WEAPON AVIONIC INTERFACE SCHEMATIC: AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00. AIM-9 SIDEWINDER AVIONIC INTERFACE SCHEMATIC, WP048 00 AGM-84 HARPOON AVIONIC INTERFACE SCHEMATIC, WP054 00. AGM-88 HARM AVIONIC INTERFACE SCHEMATIC, WP056 00. AGM-65 MAVERICK AVIONIC INTERFACE SCHEMATIC, WP052 00. AGM-45 SHRIKE AVIONIC INTERFACE SCHEMATIC, WP050 00. BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00. ROCKET AVIONIC INTERFACE SCHEMATIC, WP070 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCIETY FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.		
	C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX 1 SCALE. PIN TO PIN TEST THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX 1 SCALE.	11	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
	D. WHEN TESTING CONTINUITY, TEST FOR:	12	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAY, WP009 00.
	(1) SHORTS TO GROUND.		
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	13	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	14	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
	(4) SHIELD CONTINUITY.	15	STORES INVENTORY SCHEMATIC, WP015 00.
3.	LINE UNDER LETTER (<u>S</u>) INDICATES LOWER CASE PIN LETTERS.	16	WEAPON SELECT SCHEMATIC, WP016 00.
4.	ABBREVIATIONS: SEE WP002 01	17	SIMULATION MODE SELECT SCHEMATIC, WP022 00.
5	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 1 POWER CONTROL SCHEMATIC, WP026 00. WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00. WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00. WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00. WEAPON STATION 9 POWER CONTROL SCHEMATIC, WP034 00.	18	MASTER ARM SCHEMATIC, WP017 00.
6	ARMAMENT MUX BUS DATA, WP010 00.	19	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.
7	AGM-84 HARPOON AVIONIC INTERFACE SCHEMATIC, WP054 00.	20	GUN SYSTEM SCHEMATIC, AI-F18AC-750-500, WP004 00.
8	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.	21	AVIONIC MUX SCHEMATIC, A1-F18AC-741-500, WP001 00.
9	AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00.	22	DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
		23	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC. WP011 00.
		24	REAR COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP007 00.
		25	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.
		26	RADAR SYSTEM INTERCONNECT SCHEMATIC, A1-F18AC-742-500, WP005 00.
		27	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP006 00.
		28	EMERGENCY JETTISON SCHEMATIC, WP018 00.
		29	F/A-18B 161354 THRU 161360 BEFORE F/A-18 AFC 27.
		30	F/A-18B 161704 AND UP; ALSO 161354 THRU 161360 AFTER F/A-18 AFC 27.
		31	161353 THRU 161519 BEFORE F/A-18 AFC 27.
		32	161520 AND UP; ALSO 161353 THRU 161519 AFTER F/A-18 AFC 27.
		33	F/A-18A.
		34	F/A-18B.
		35	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 84A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 84A AND UP (A1-F18AC-SCM-000).
		36	162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 48.
		37	161353 THRU 161987 BEFORE F/A-18 AFC 48.
		38	162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.
		39	161353 THRU 161359.
		40	161360 AND UP.
		41	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).

Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 8)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION POWER CONTROL INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematics in this work package show the power control functions that interface with all weapon stations. This schematic supplements the schematics listed below:

a. Weapon Station 1 Power Control Schematic
(WP026 00)

b. Weapon Station 2 Power Control Schematic
(WP027 00)

c. Weapon Station 3 Power Control Schematic
(WP028 00)

d. Weapon Station 4 Power Control Schematic
(WP029 00)

e. Weapon Station 5 Power Control Schematic
(WP030 00)

f. Weapon Station 6 Power Control Schematic
(WP031 00)

g. Weapon Station 7 Power Control Schematic
(WP032 00)

h. Weapon Station 8 Power Control Schematic
(WP033 00)

i. Weapon Station 9 Power Control Schematic
(WP034 00)

3. The location of the components on this
schematic can be seen in WP008 00.



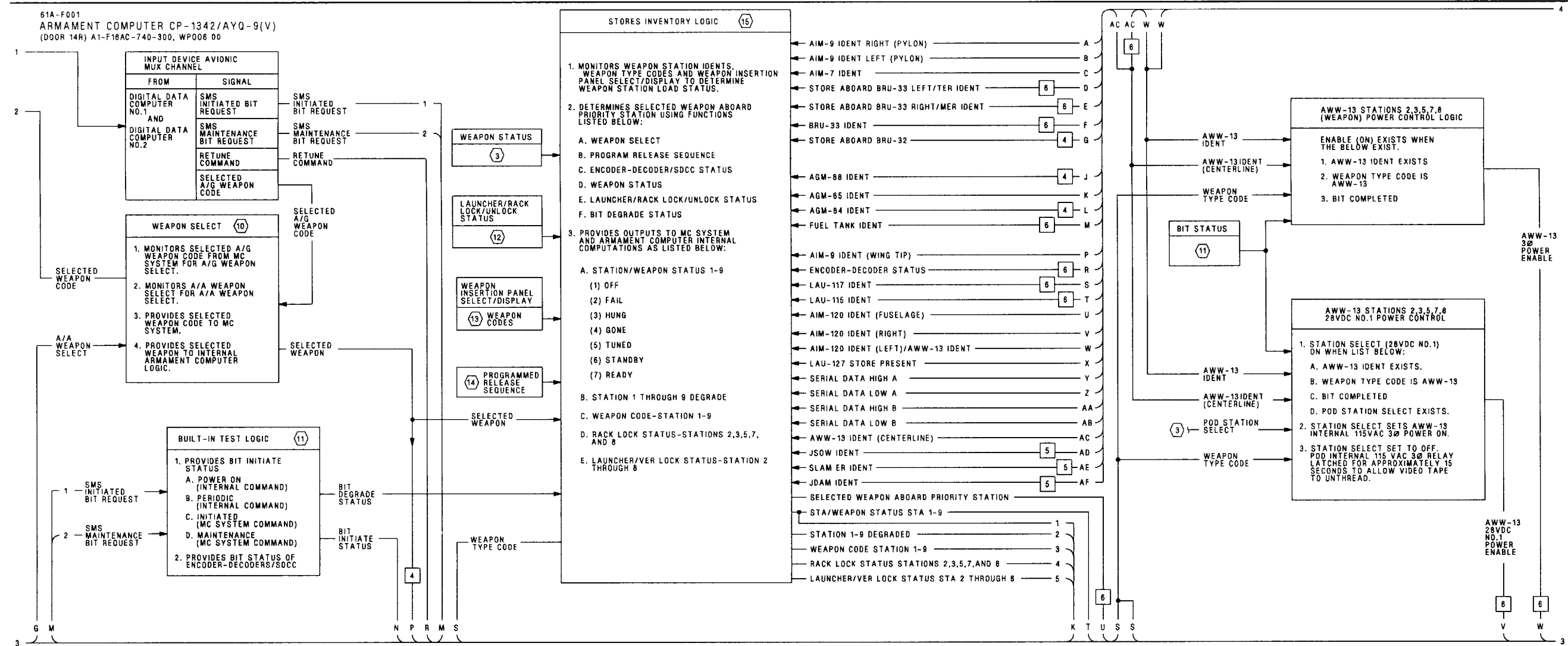


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 2)

Figure 1.

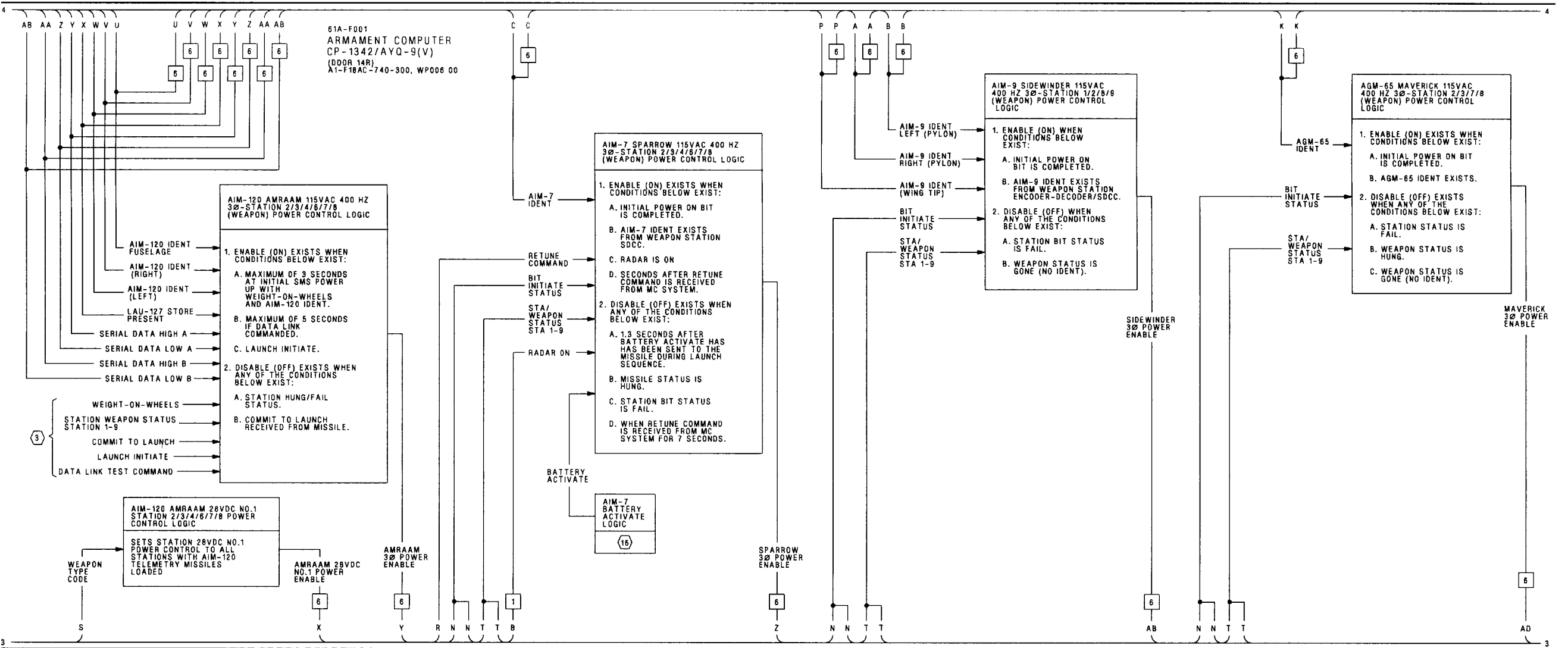
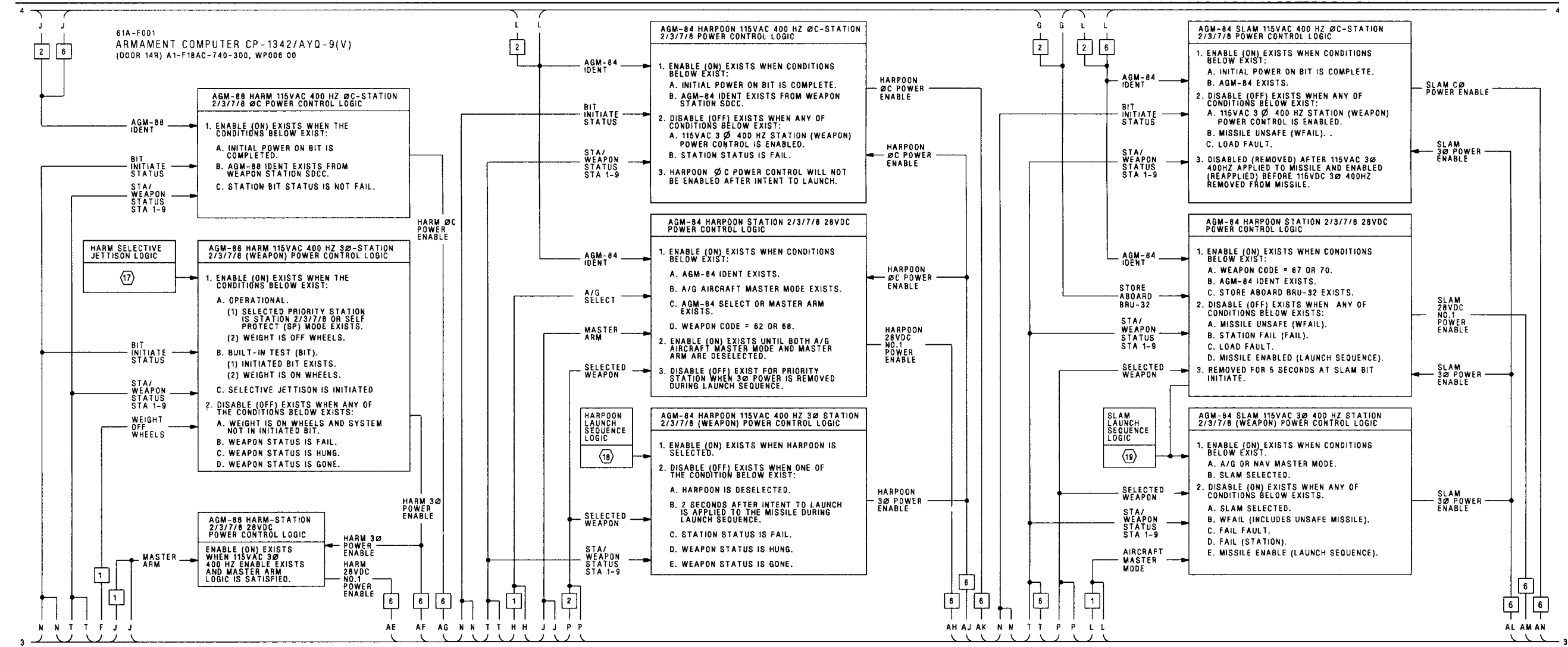


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 3)



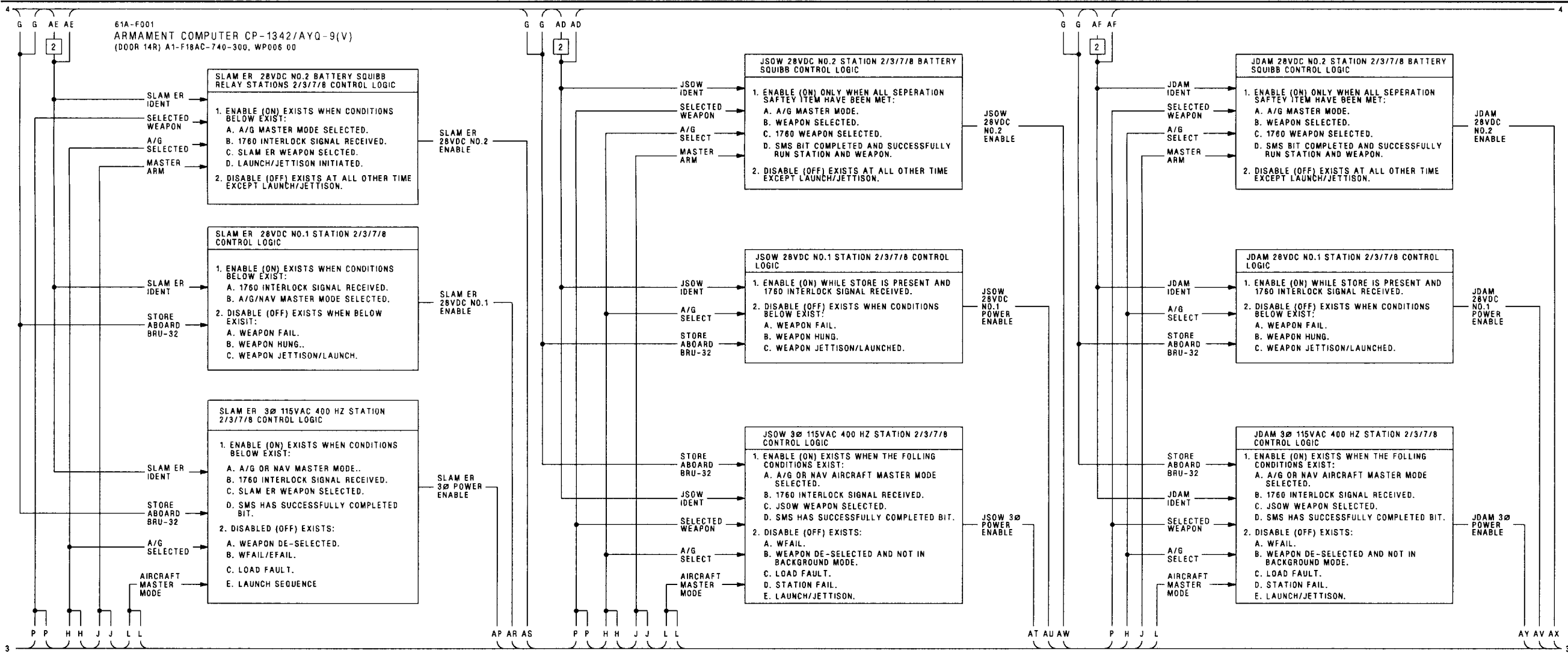


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 5)

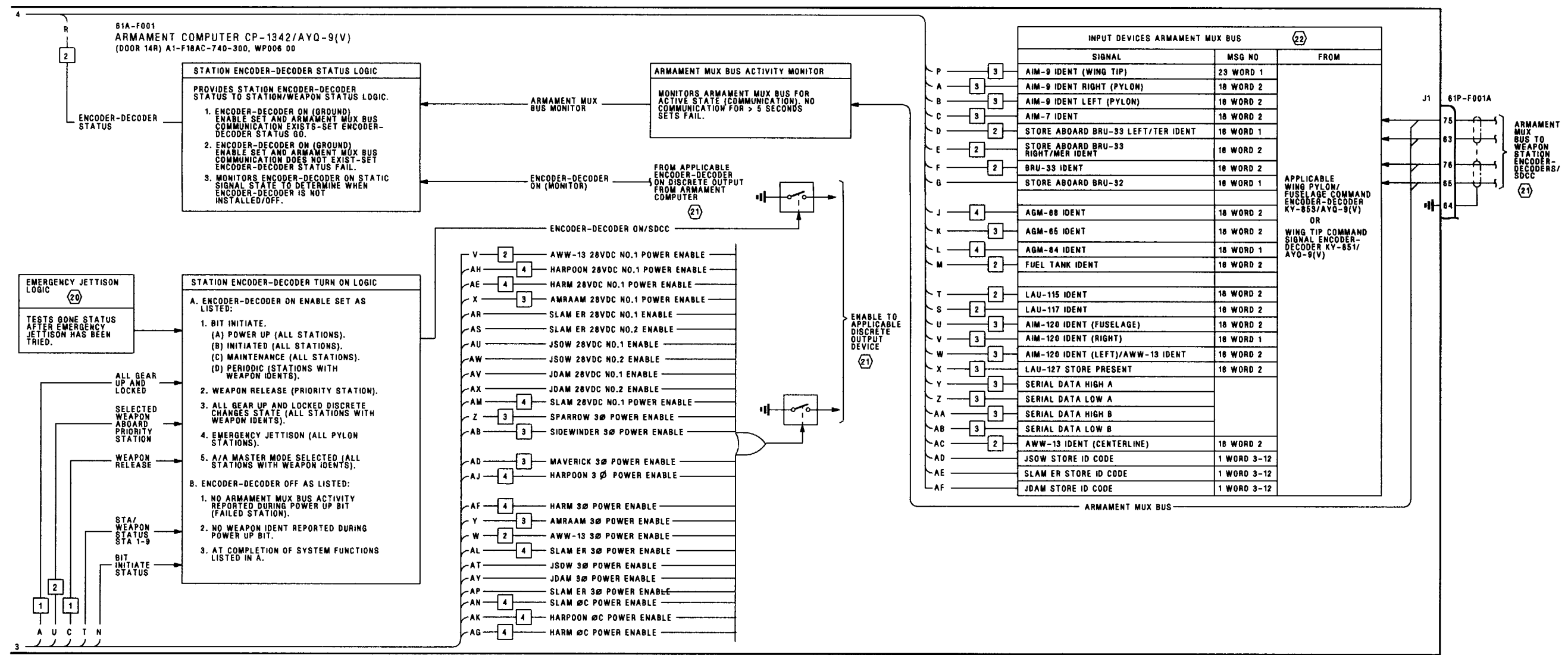


Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 6)

LEGEND	
1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2. CONTINUITY TEST:	
A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000.	
B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCIETY FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	
C. WHEN TESTING CONTINUITY, TEST FOR:	
(1) SHORTS TO GROUND.	
(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	
(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	
(4) SHIELD CONTINUITY.	
⊕ APPLICABLE WEAPON AVIONIC INTERFACE SCHEMATIC:	
AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00.	
AIM-9 SIDEWINDER AVIONIC INTERFACE SCHEMATIC, WP048 00.	
AGM-84 HARPOON AVIONIC INTERFACE SCHEMATIC, WP054 00.	
AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.	
AGM-65 MAVERICK AVIONIC INTERFACE SCHEMATIC, WP052 00.	
BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.	
MINE AVIONIC INTERFACE SCHEMATIC, WP064 00.	
ROCKET AVIONIC INTERFACE SCHEMATIC, WP070 00.	
AIM-120 AMRAAM AVIONIC INTERFACE SCHEMATIC, WP042 00.	
GUIDED WEAPON CONTROL - MONITOR SET AWW-13 AVIONIC INTERFACE SCHEMATIC, WP068 00.	
AGM-84 SLAM AVIONIC INTERFACE SCHEMATIC, WP054 03.	
⊞ SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, AI-F18AC-741-500, WP001 00.	
⊟ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	
⊠ GUN SYSTEM SCHEMATIC, AI-F18AC-750-500, WP004 00.	
⊡ AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	
⊢ SIMULATION MODE SELECT SCHEMATIC, WP022 00.	
⊣ MASTER ARM SCHEMATIC, WP017 00.	
⊤ WEAPON SELECT SCHEMATIC, WP016 00.	
⊥ BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP022 00.	
⊦ LAUNCHERIRACK LOCK/UNLOCK SCHEMATIC, WP020 00.	
⊧ ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAY, WP009 00.	
⊨ PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.	
⊩ STORES INVENTORY SCHEMATIC, WP015 00.	
⊪ AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00.	
⊫ SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.	
⊬ AGM-84 HARPOON AVIONIC INTERFACE SCHEMATIC, WP054 00.	
⊭ AGM-84 SLAM AVIONIC INTERFACE SCHEMATIC, WP054 00.	
⊮ EMERGENCY JETTISON SCHEMATIC, WP018 00.	
⊯ APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:	
WEAPON STATION 1 POWER CONTROL SCHEMATIC, WP026 00.	
WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.	
WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.	
WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00.	
WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00.	
WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00.	
WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.	
WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.	
WEAPON STATION 9 POWER CONTROL SCHEMATIC, WP034 00.	
⊰ ARMAMENT MUX BUS DATA, WP010 00.	

Figure 1.

Figure 1. Weapon Station Power Control Interface Schematic (Sheet 7)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 1760 STORES

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.
2. The schematic in this work package shows the system functions for 1760 stores/weapons when loaded on weapon station 2, 3, 7, or 8.
3. The schematic supports the Avionics Interface Schematic for the 1760 store/weapon.
4. The location of the components can be seen in WP008 00.

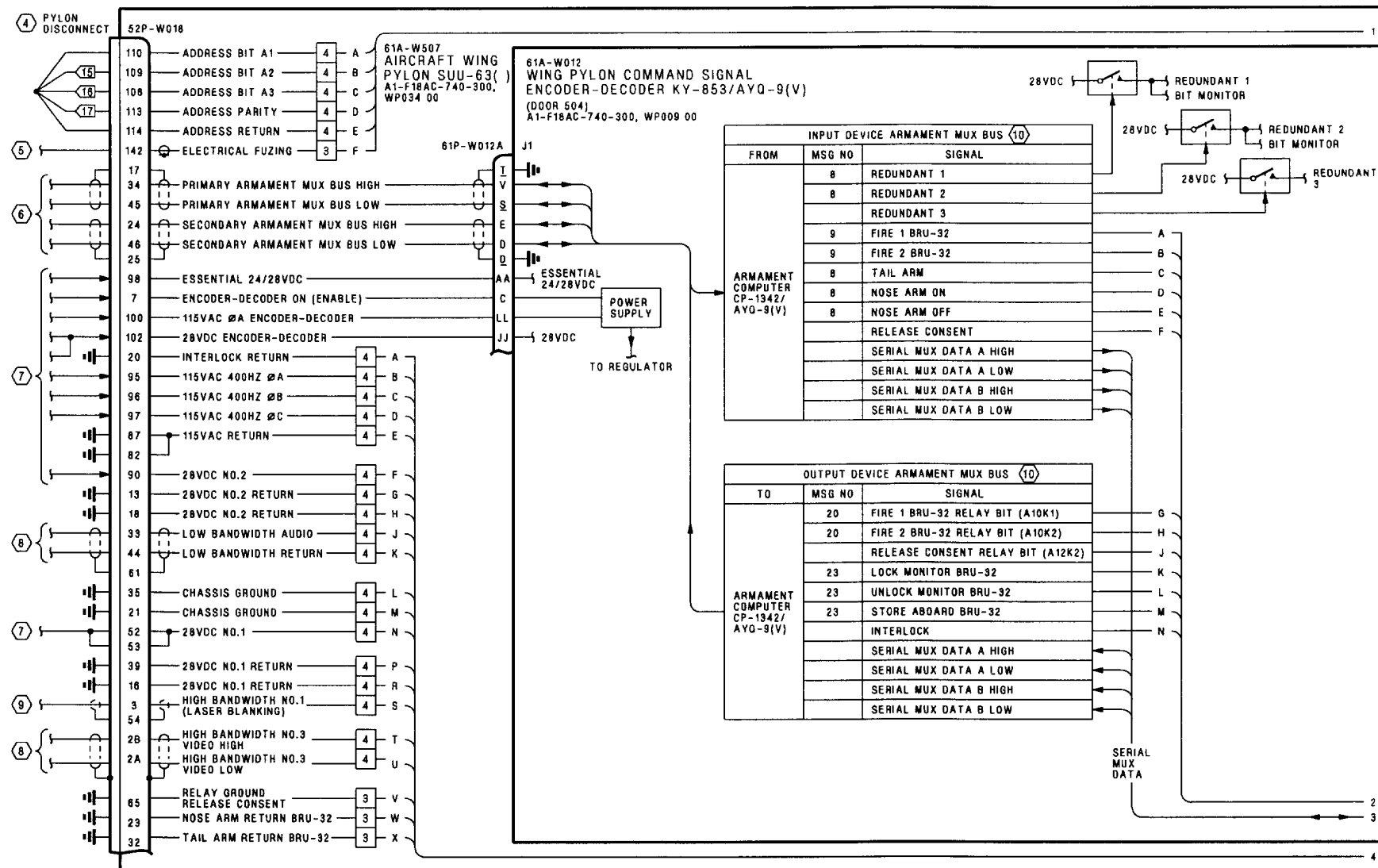


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 1760 Stores Schematic (Sheet 1)

61A-W507 AIRCRAFT WING PYLON SUU-63() A1-F18AC-740-300, WP034 00

61A-W012
WING PYLON COMMAND SIGNAL
ENCODER-DECODER KY-853/AYQ-9(V)
(DOOR 504)
A1-F18AC-740-300, WP009 00

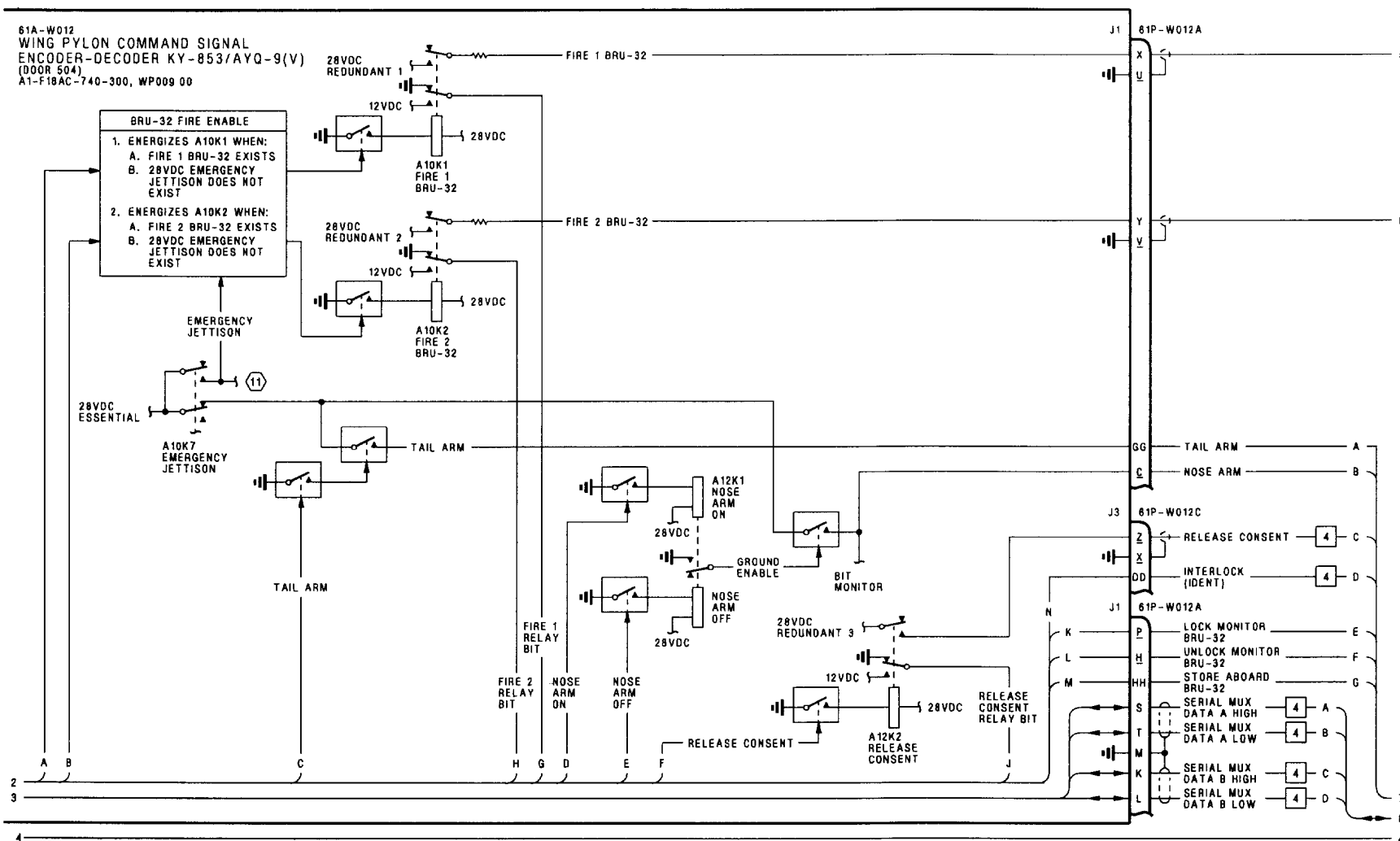


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 1760 Stores Schematic (Sheet 2)

03600102
Figure 1.



03600103
Figure 1.

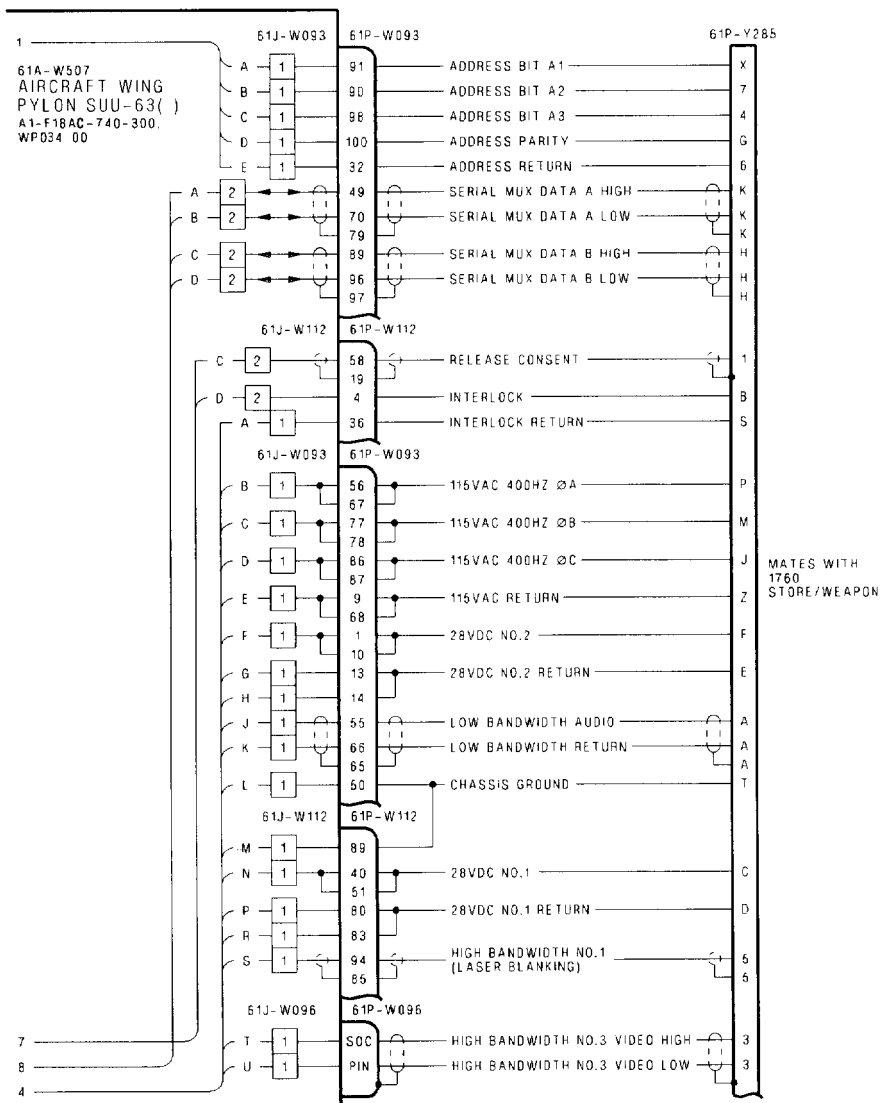


Figure 1. Weapon Station 2, 3, 7, 8 1760 Stores Schematic (Sheet 4)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. PYLON DISCONNECT AND DOOR LOCATIONS:
 - STATION 2 - 52J-U062 (DOOR 61L).
 - STATION 3 - 52J-U063 (DOOR 60L).
 - STATION 7 - 52J-V067 (DOOR 60R).
 - STATION 8 - 52J-V068 (DOOR 61R).
5. ELECTRICAL FUZING SCHEMATIC, WP071 00.
6. APPLICABLE 1760 STORE/WEAPON AVIONIC INTERFACE SCHEMATIC:
 - AGM-154 JSOW AVIONIC INTERFACE SCHEMATIC, WP038 00.
 - AGM-84H SLAM ER AVIONIC INTERFACE SCHEMATIC, WP054 00.
7. APPLICABLE WEAPON POWER CONTROL SCHEMATIC:
 - WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
 - WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
 - WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
 - WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
8. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
9. LASER TARGET DESIGNATOR/RANGER INTERCONNECT SCHEMATIC, A1-F18AC-744-500, WP011 00.
10. ARMAMENT MUX BUS DATA, WP010 00.
11. EMERGENCY JETTISON SCHEMATIC, WP018 00.
12. CONNECTORS AND PIN NUMBERS ARE DUPLICATED TO SIMPLIFY SIGNAL FLOW.
13. RELEASE CONSENT INTERCONNECT SCHEMATIC, WP004 00.
14. LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
15. ADDRESS BIT WIRE APPLICABLE FOR STATIONS 3 AND 7.
16. ADDRESS BIT WIRE APPLICABLE FOR STATIONS 7 AND 8.
17. ADDRESS BIT WIRE APPLICABLE FOR STATIONS 3 AND 8.

Figure 1. Weapon Station 2, 3, 7, 8 1760 Stores Schematic (Sheet 5)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 5 1760 STORES

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for 1760 stores/weapons when loaded on weapon station 5.
3. The schematic supports the Avionics Interface Schematic for the 1760 store/weapon.
4. The location of the components can be seen in WP008 00.

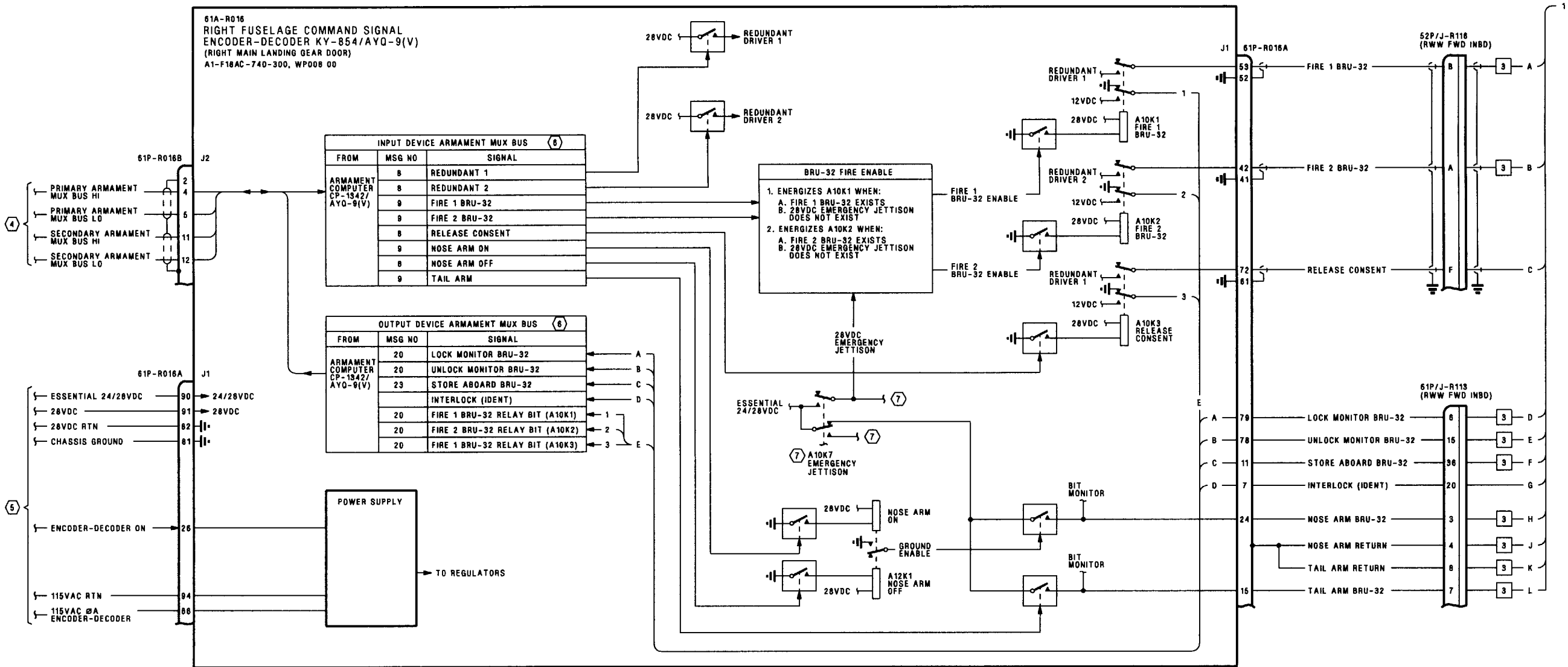


Figure 1.

Figure 1. Weapon Station 5 1760 Stores Schematic (Sheet 1)



Figure 1.

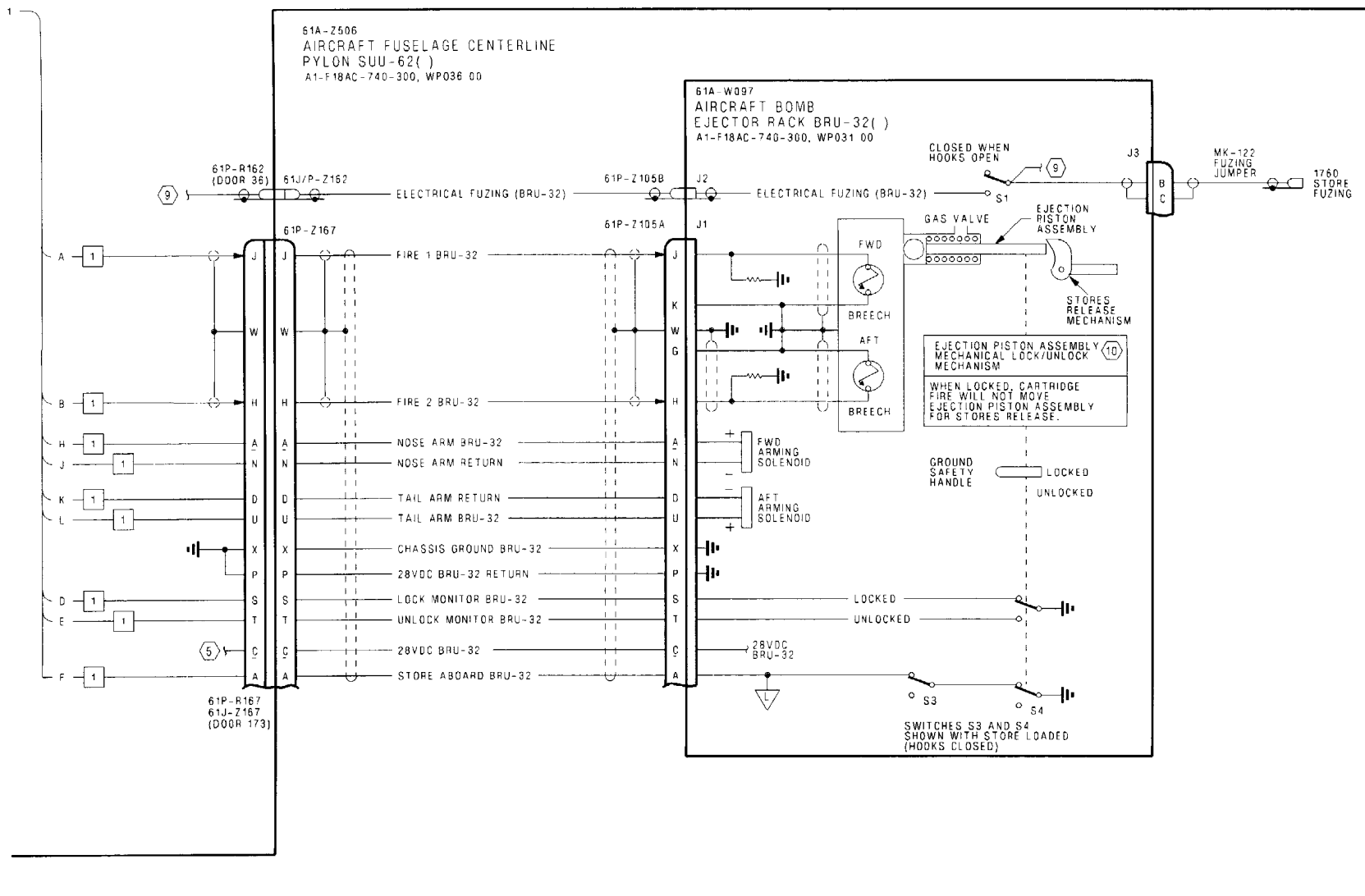


Figure 1.

Figure 1. Weapon Station 5 1760 Stores Schematic (Sheet 3)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
-
- ④ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC WP011 00.
 - ⑤ WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00.
 - ⑥ ARMAMENT MUX BUS DATA, WP010 00.
 - ⑦ EMERGENCY JETTISON SCHEMATIC, WP018 00.
 - ⑧ LASER TARGET DESIGNATOR/RANGER INTERCONNECT SCHEMATIC, A1-F18AC-744-500, WP011 00.
 - ⑨ ELECTRICAL FUZING SCHEMATIC, WP071 00.
 - ⑩ LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-154 JSOW AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. **INTRODUCTION.**

2. The schematic in this work package shows the aircraft related system functions for the AGM-154
- JSOW. This schematic supports weapon station 2, 3,
7, 8 1760 stores schematic WP036 00.

3. The location of the components can be seen in
WP008 00.

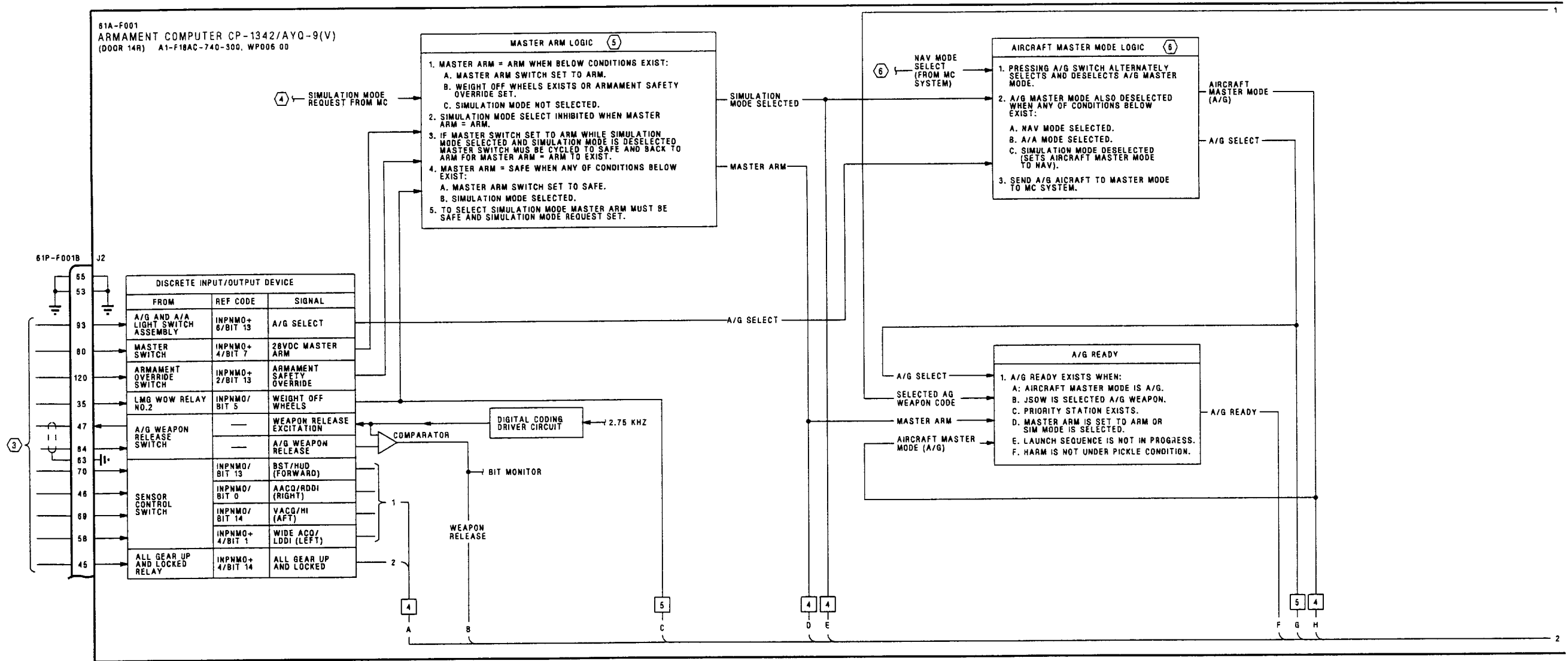


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 1)

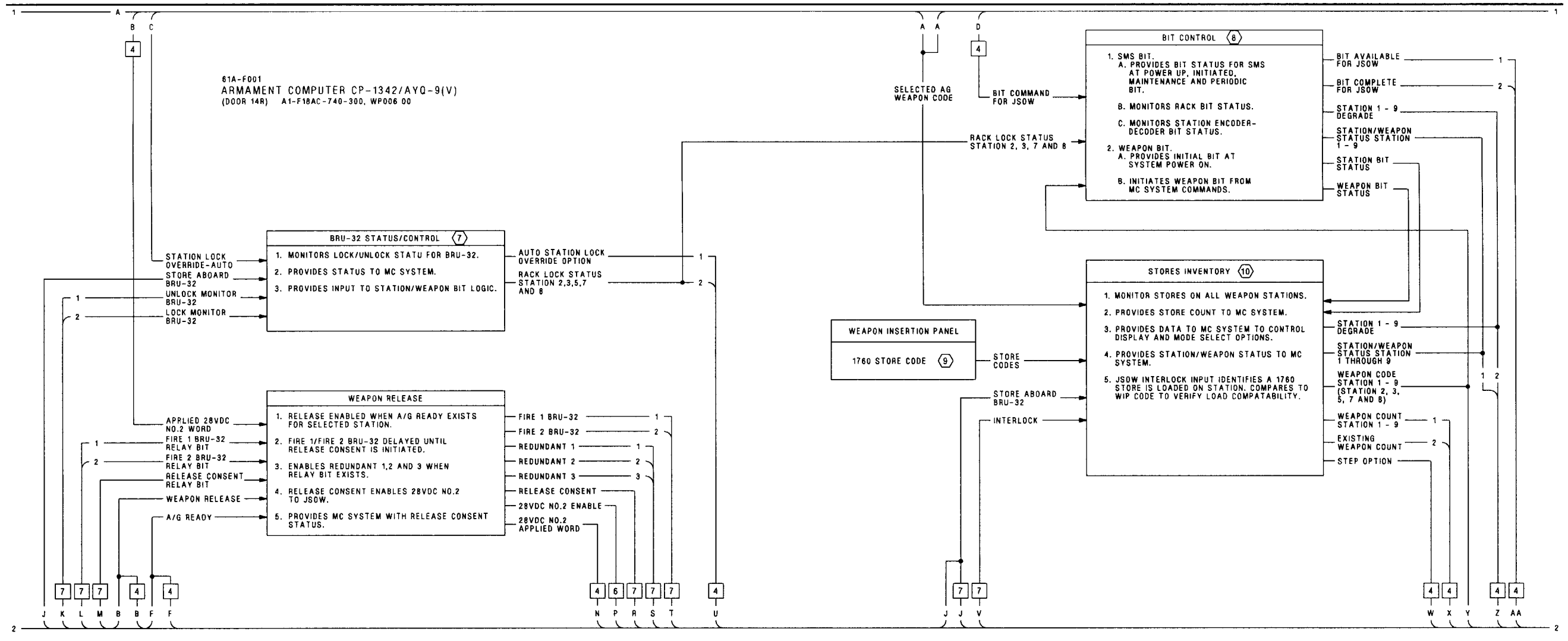


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 2)

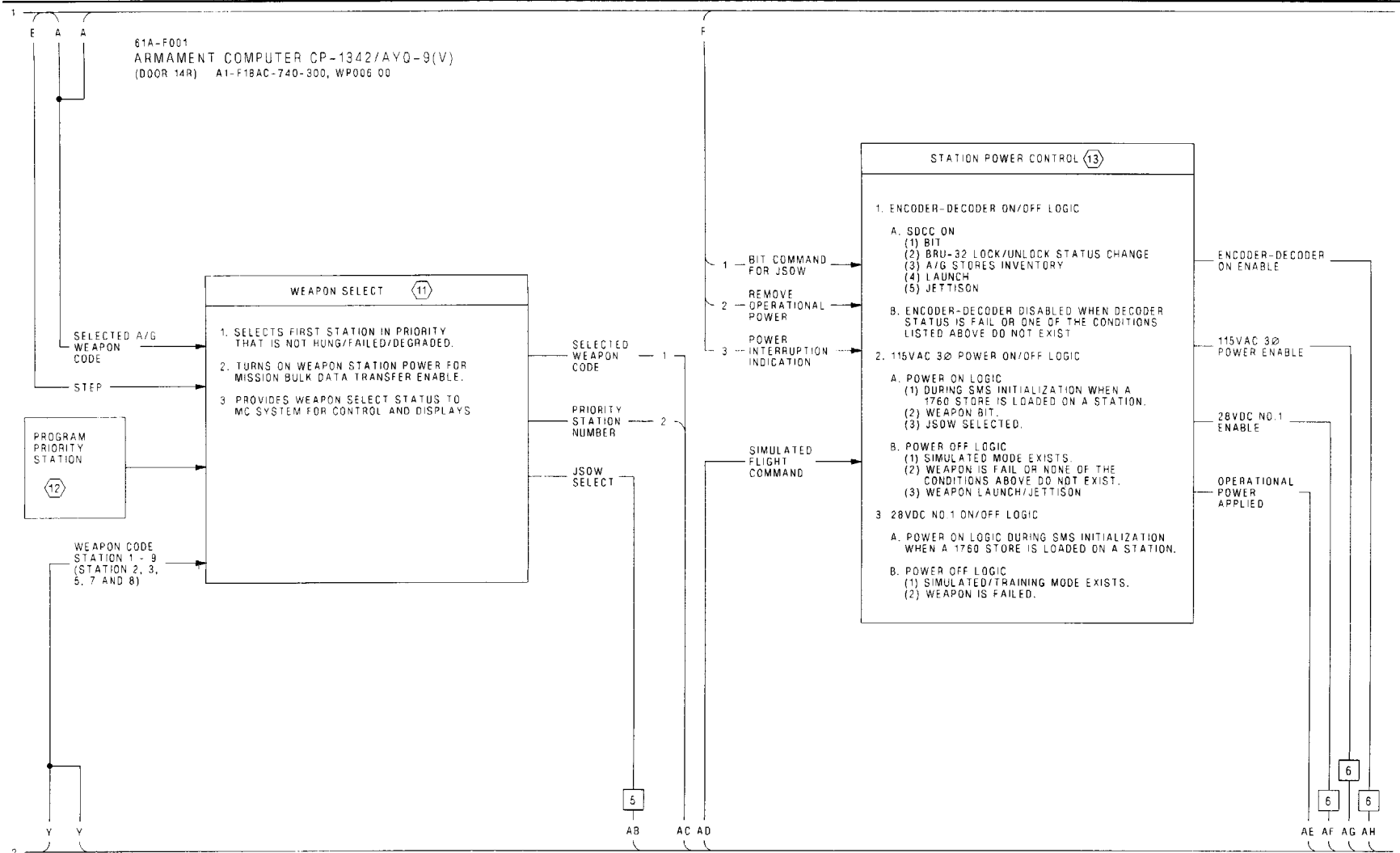


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 3)

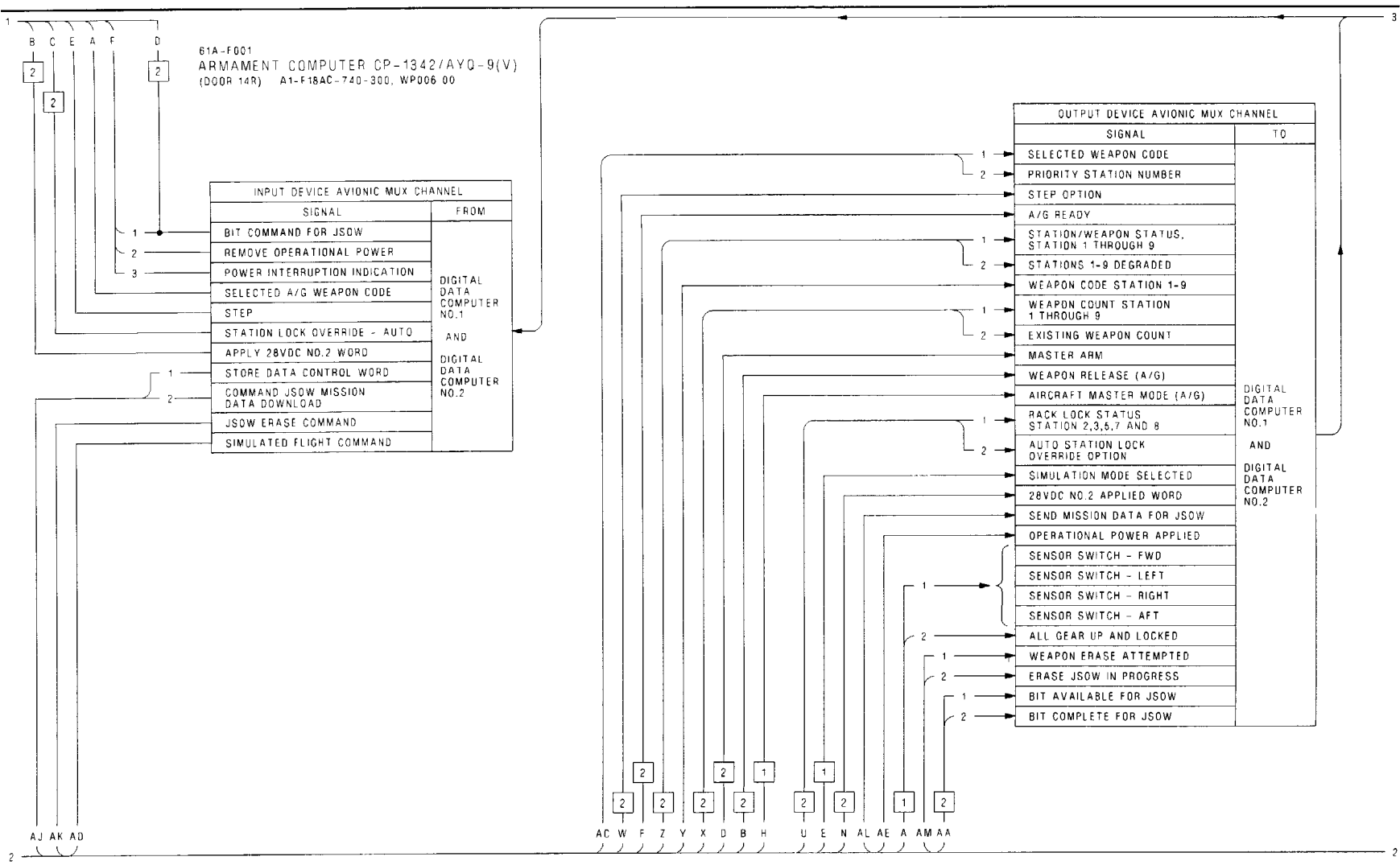


Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 4)

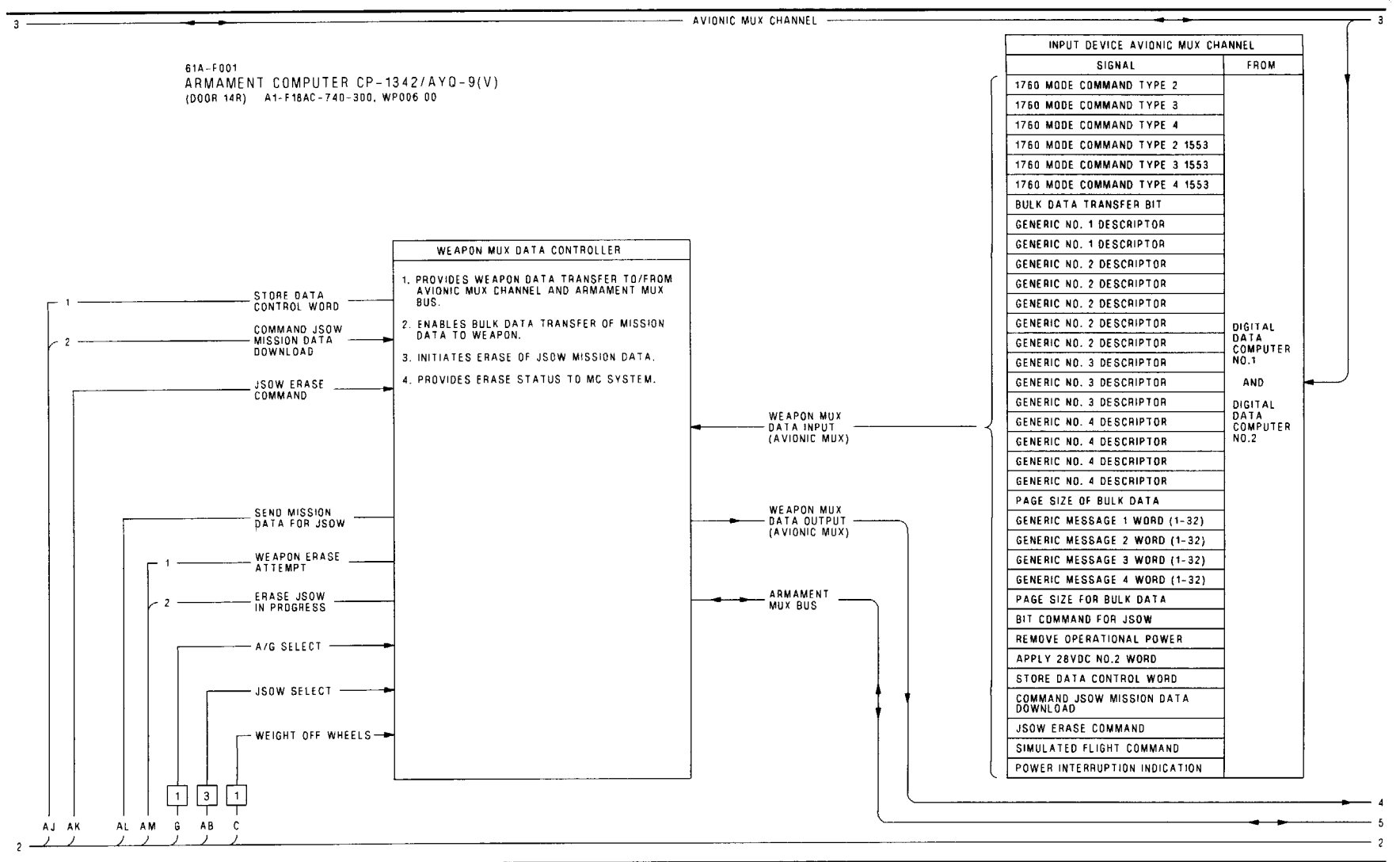


Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 5)

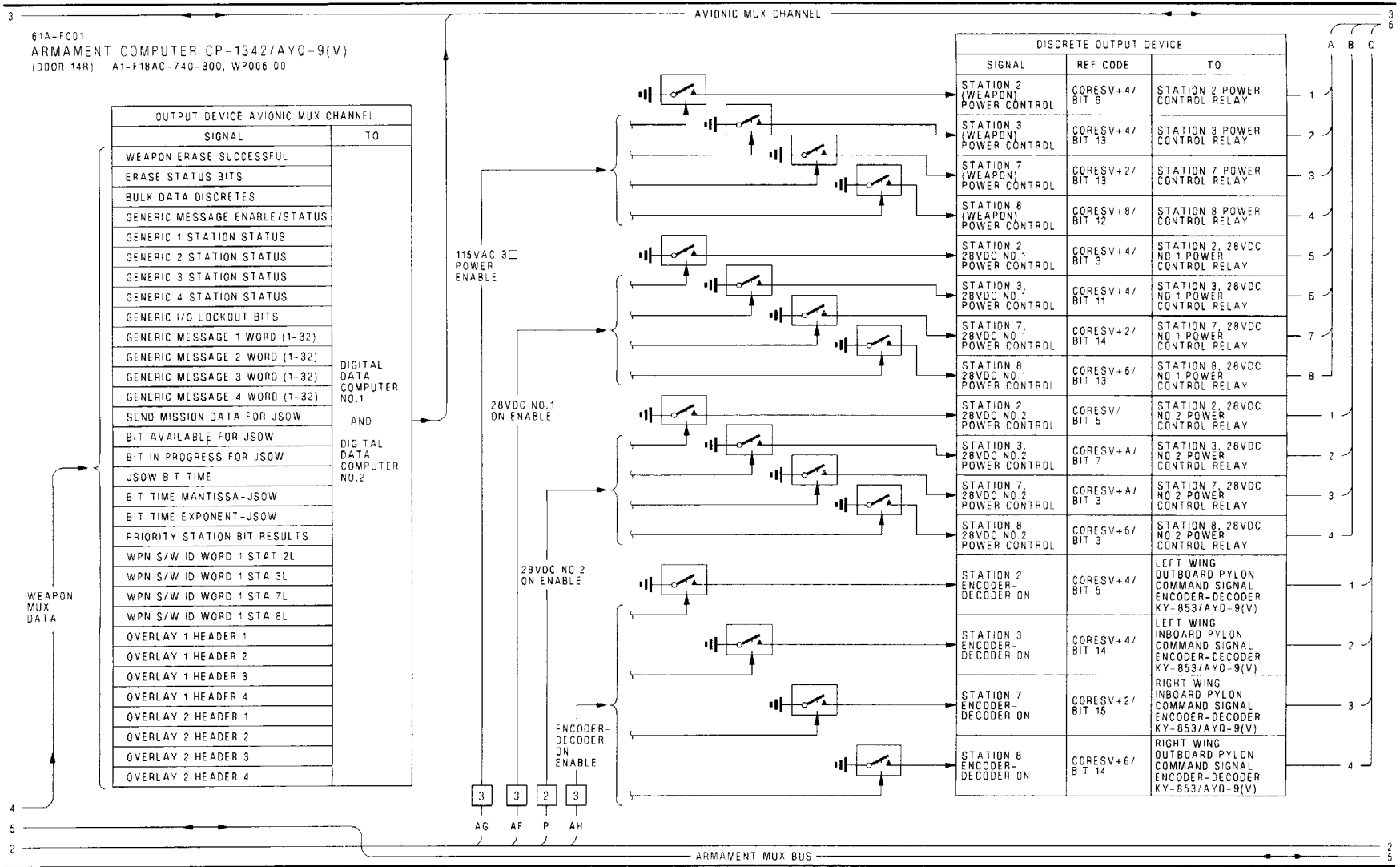


Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 6)

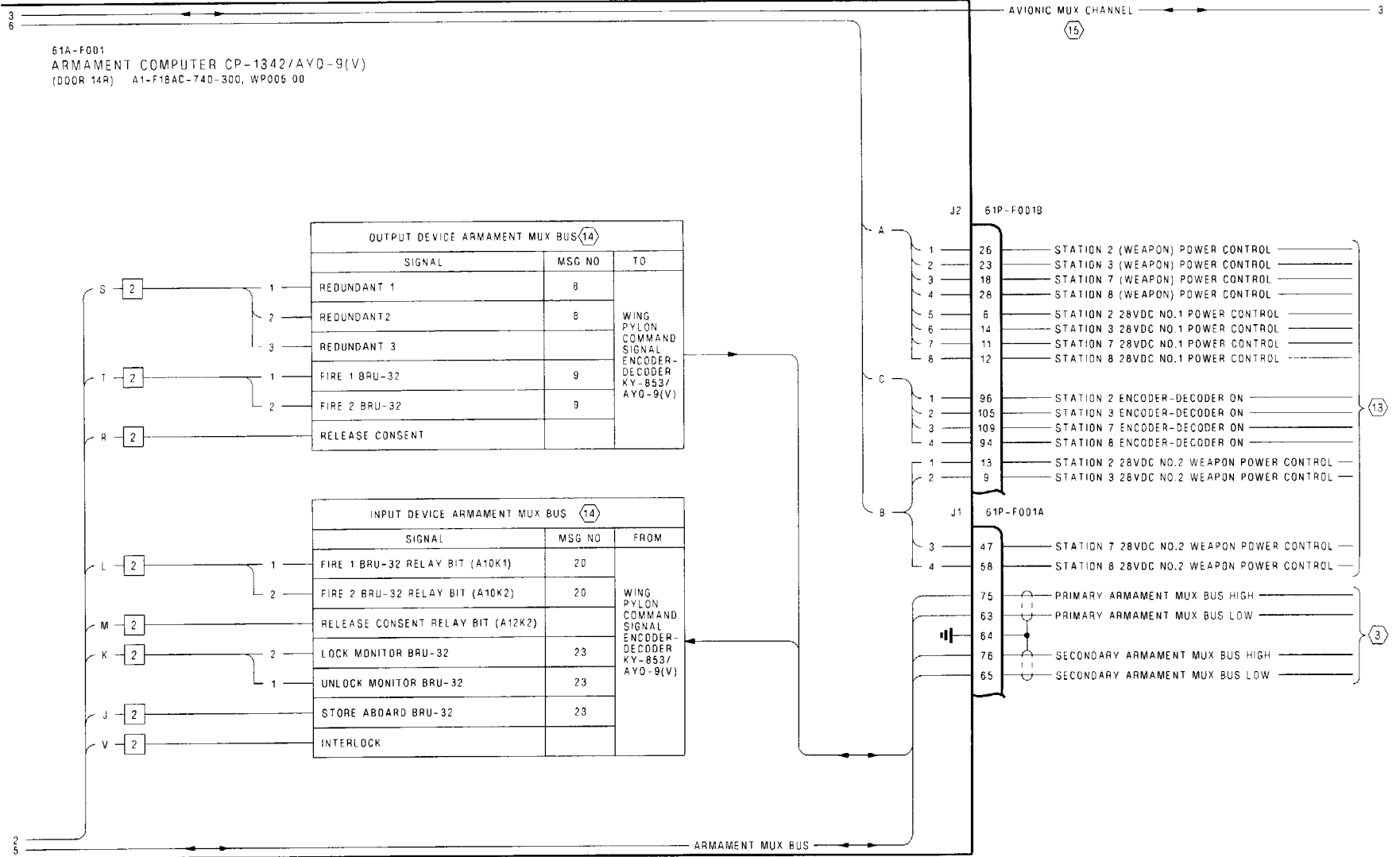


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 7)



Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 8)

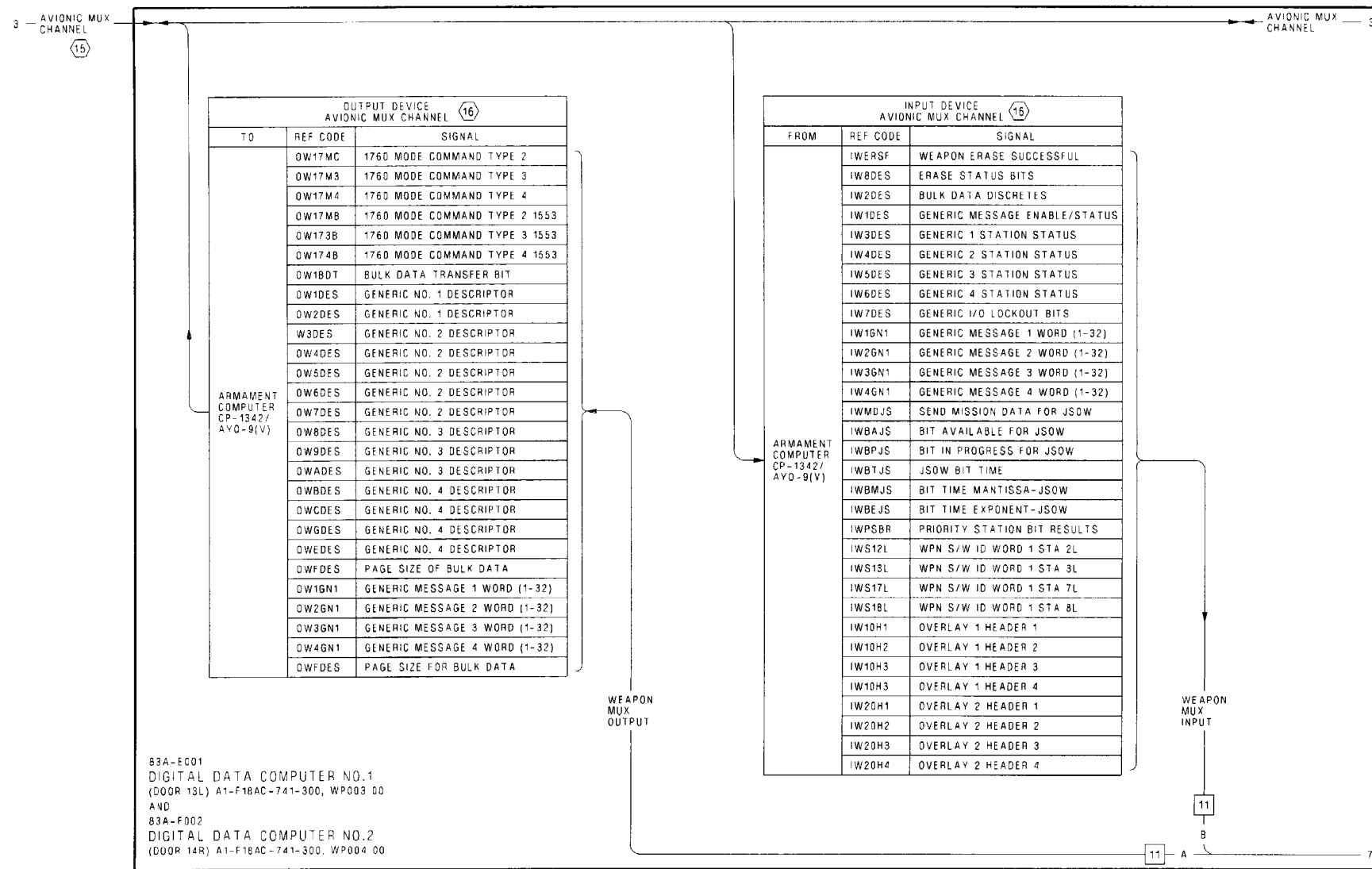


Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 9)

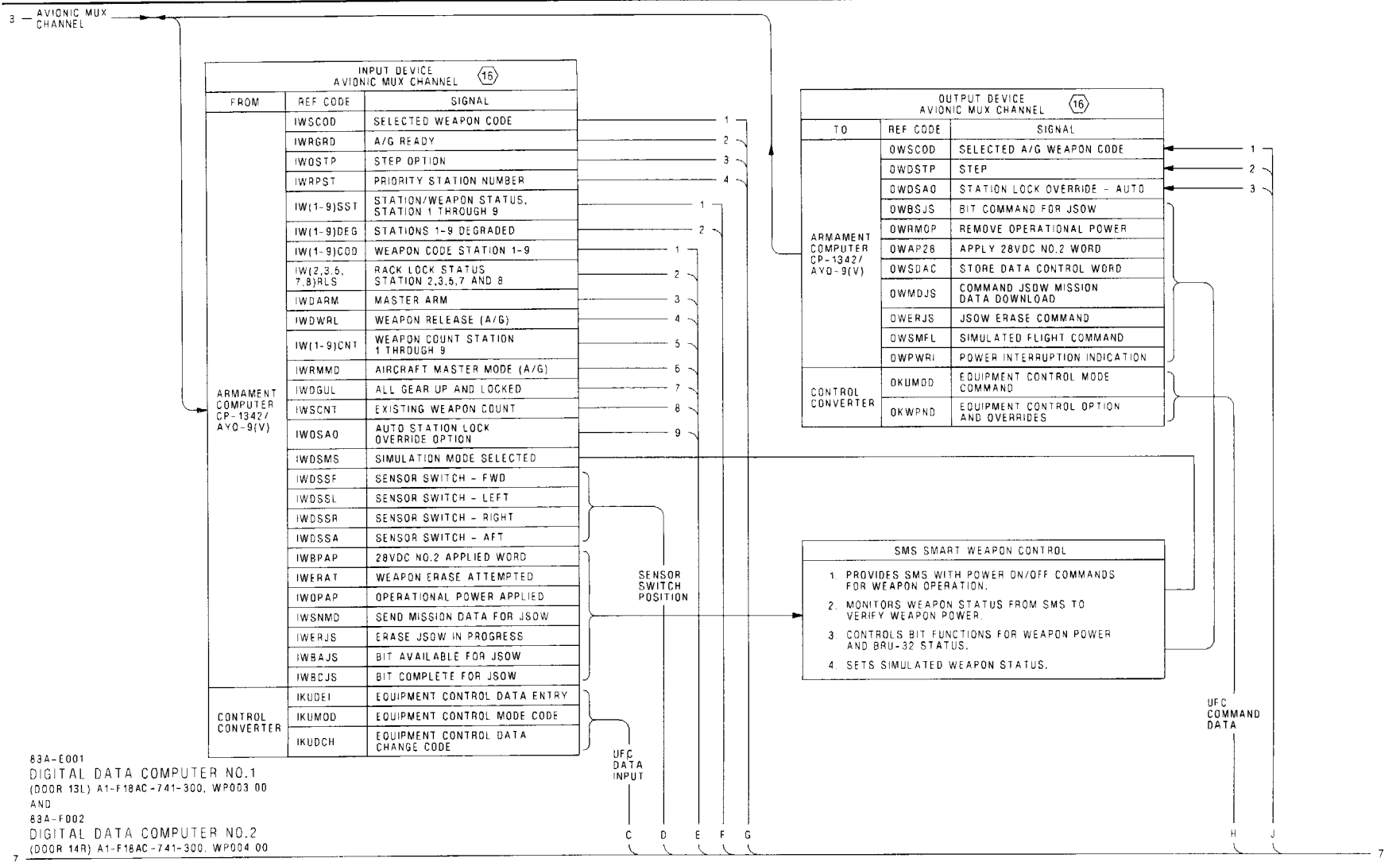


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Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 10)

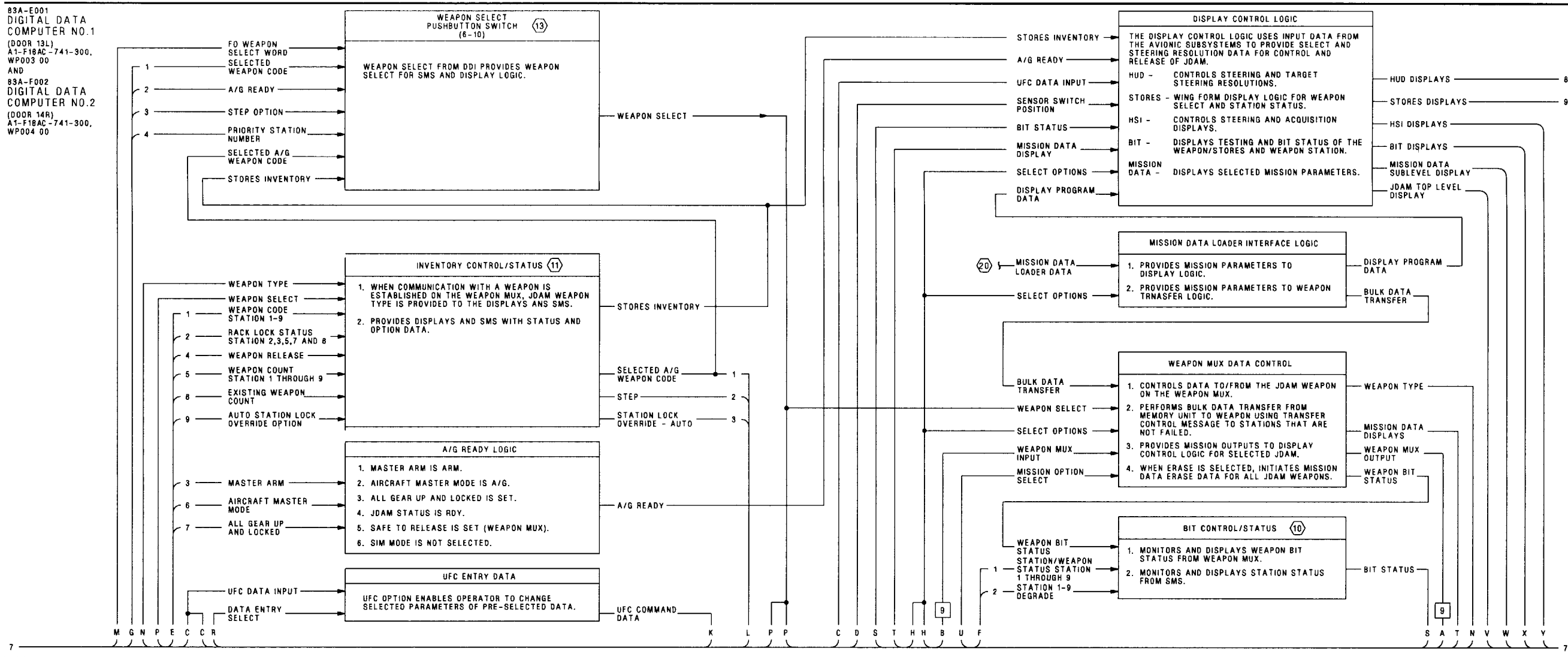


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 11)

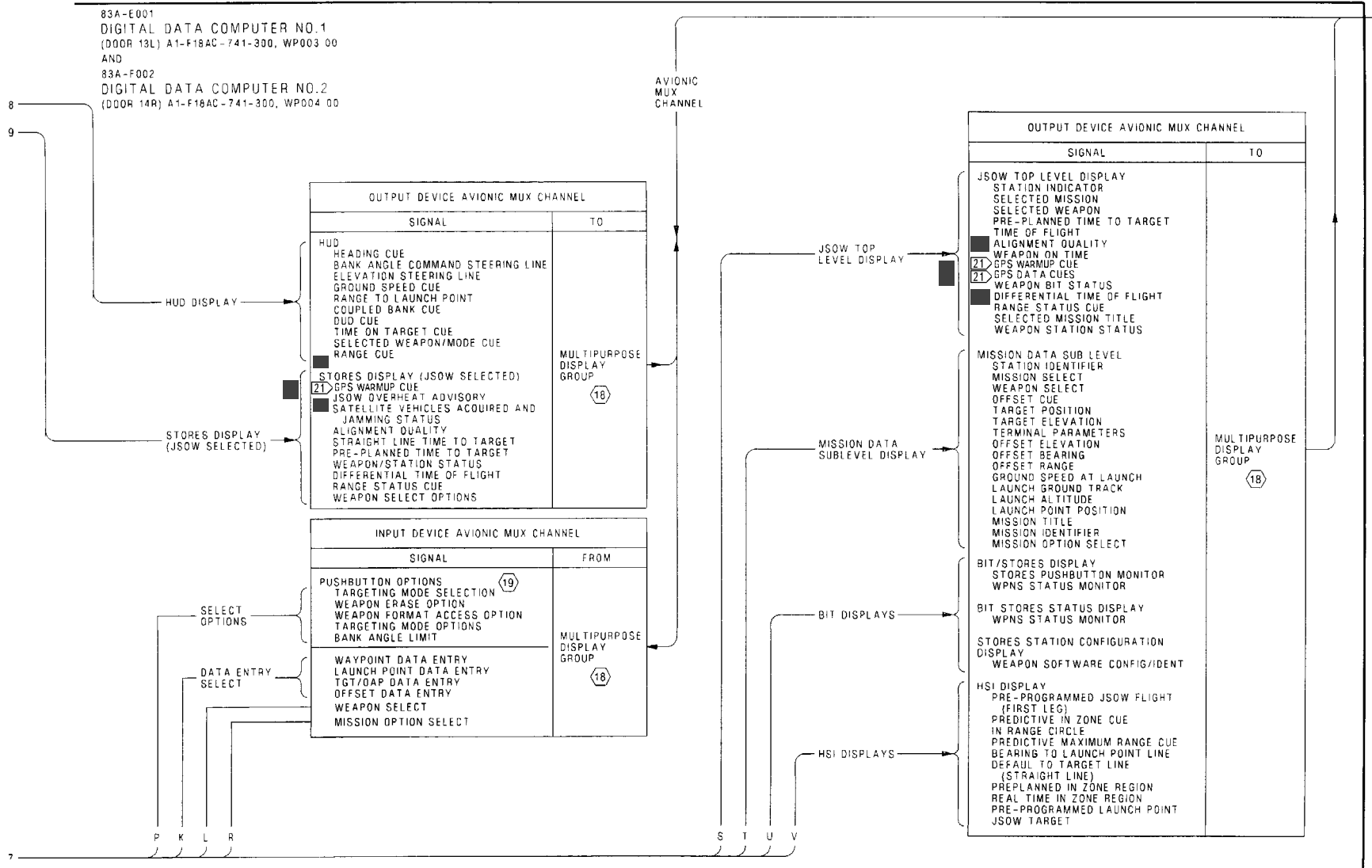


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 12)

Figure 1.

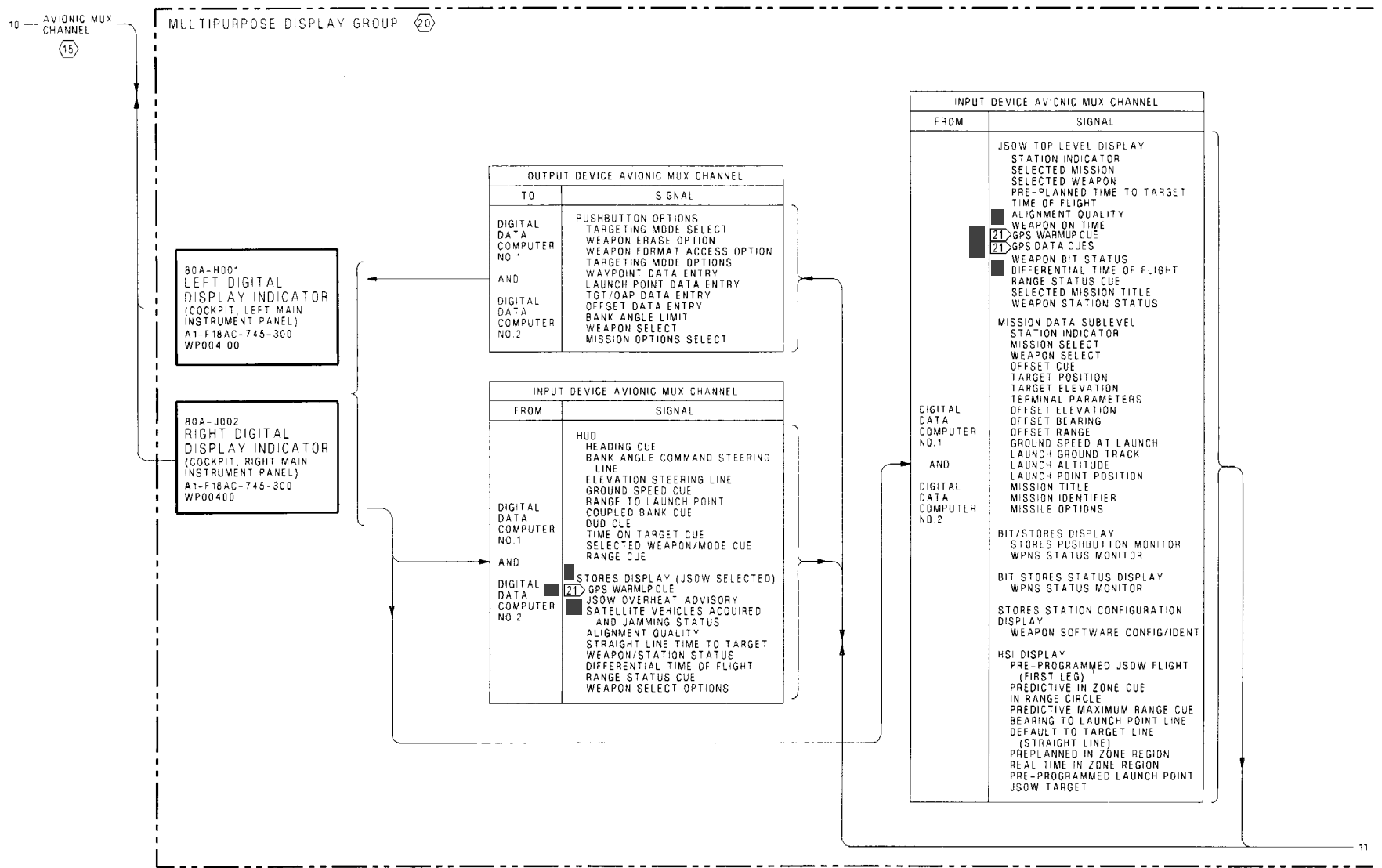


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 13)

MULTIPURPOSE DISPLAY GROUP (20)

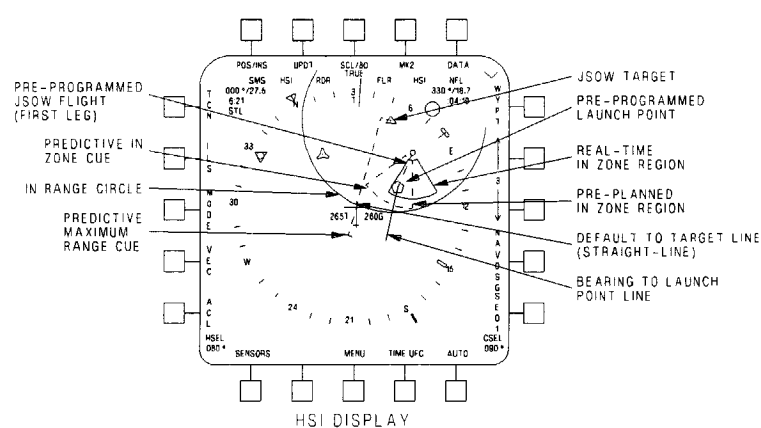
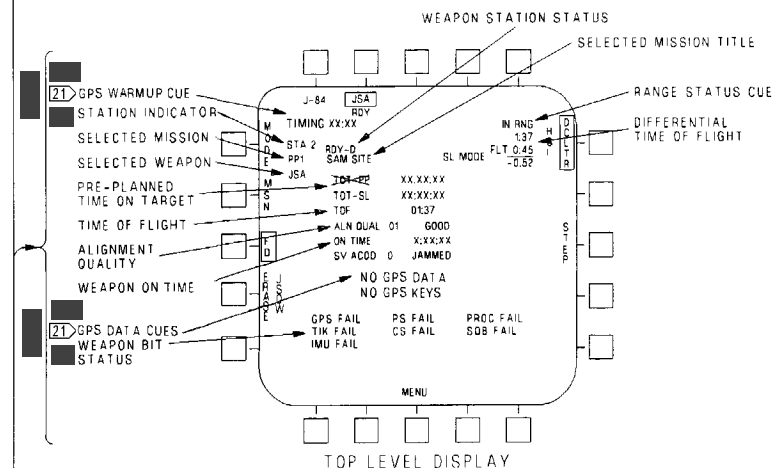
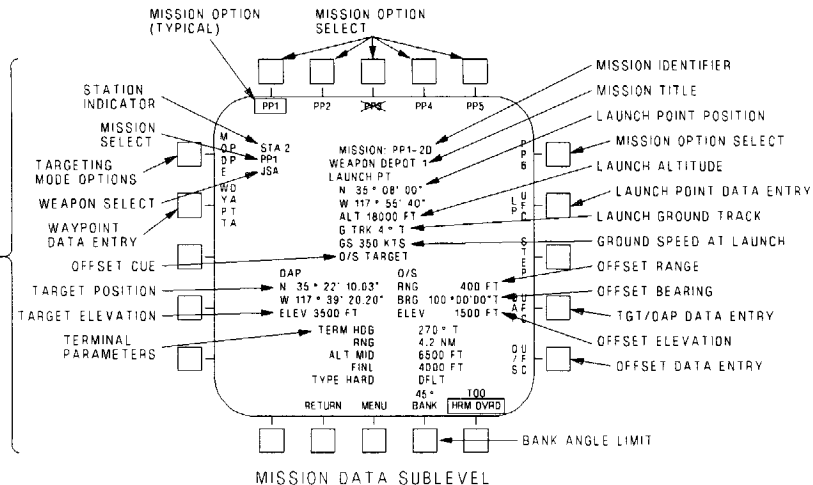
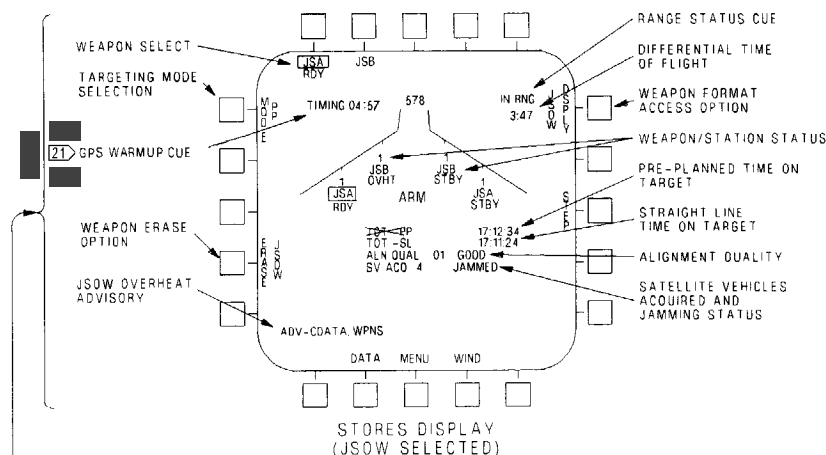


Figure 1.

Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 14)

Figure 1.

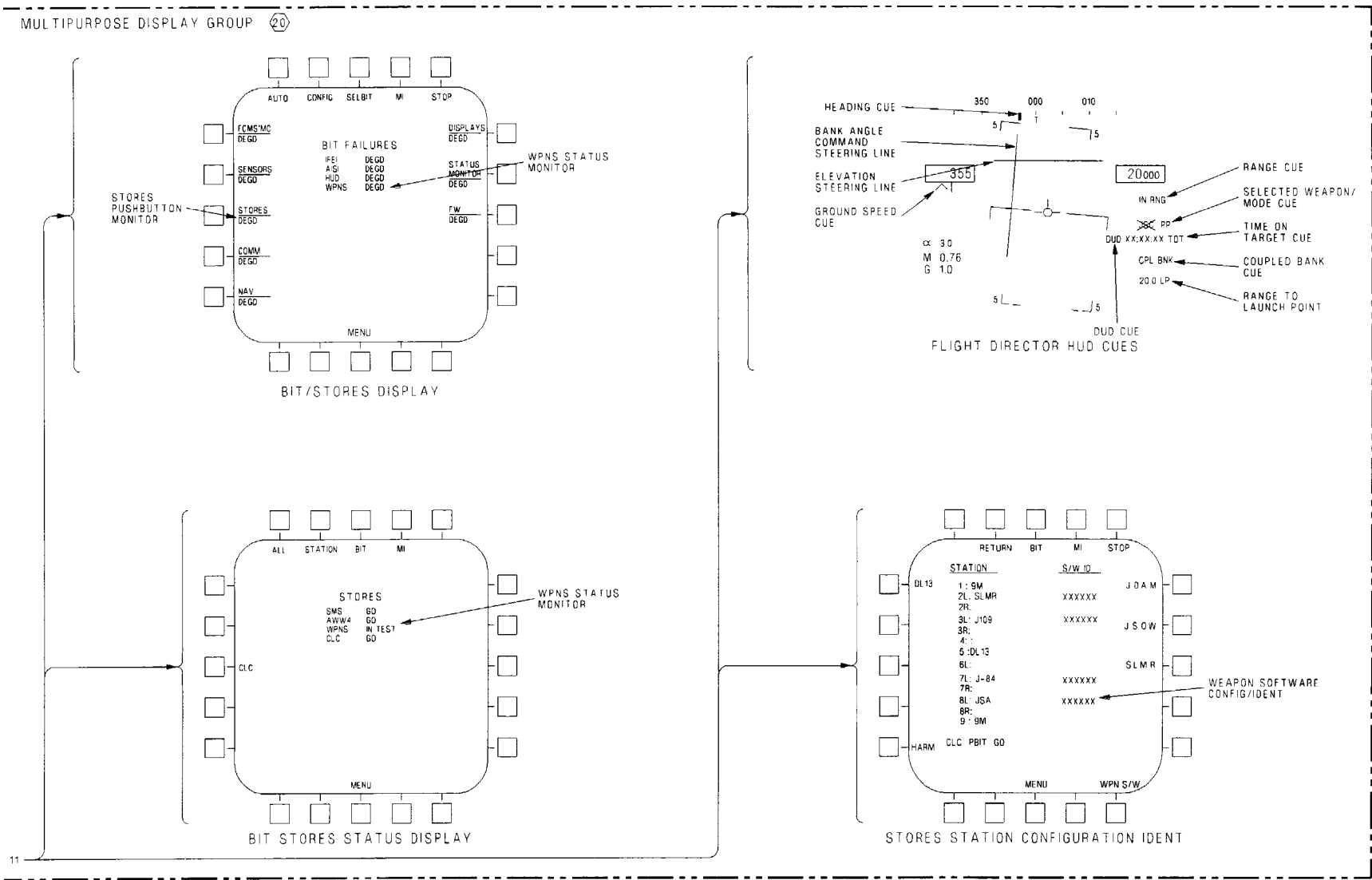


Figure 1. AGM-154 JSOW Avionic Interface Schematic (Sheet 15)

LEGEND

1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:		
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)-WDM-000.	12	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	13	WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
	C. WHEN TESTING CONTINUITY, TEST FOR:	14	ARMAMENT MUX BUS DATA, WP010 00.
	(1) SHORTS TO GROUND.	15	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	16	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	17	MISSION DATA LOADER FUNCTIONAL SCHEMATIC, A1-F18AC-580-500, WP021 00.
	(4) SHIELD CONTINUITY.	18	DISPLAY REF CODES ARE NOT SHOWN. TROUBLESHOOT AS LISTED BELOW: 1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. 2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. 3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
3	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	19	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT AS LISTED BELOW: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
4	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	20	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
5	MASTER ARM SCHEMATIC, WP017 00.	21	AFTER F/A-18 AFC 231.
6	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.		
7	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.		
8	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.		
9	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.		
10	STORES INVENTORY SCHEMATIC, WP015 00.		
11	WEAPON SELECT SCHEMATIC, WP016 00.		

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - GBU-31 JDAM AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. **INTRODUCTION.**

2. The schematic in this work package shows the aircraft related system functions for the GBU-31
- JDAM. This schematic supports weapon station 2,
3, 7, 8 1760 stores schematic WP036 00.

3. The location of the components can be seen in
WP008 00.

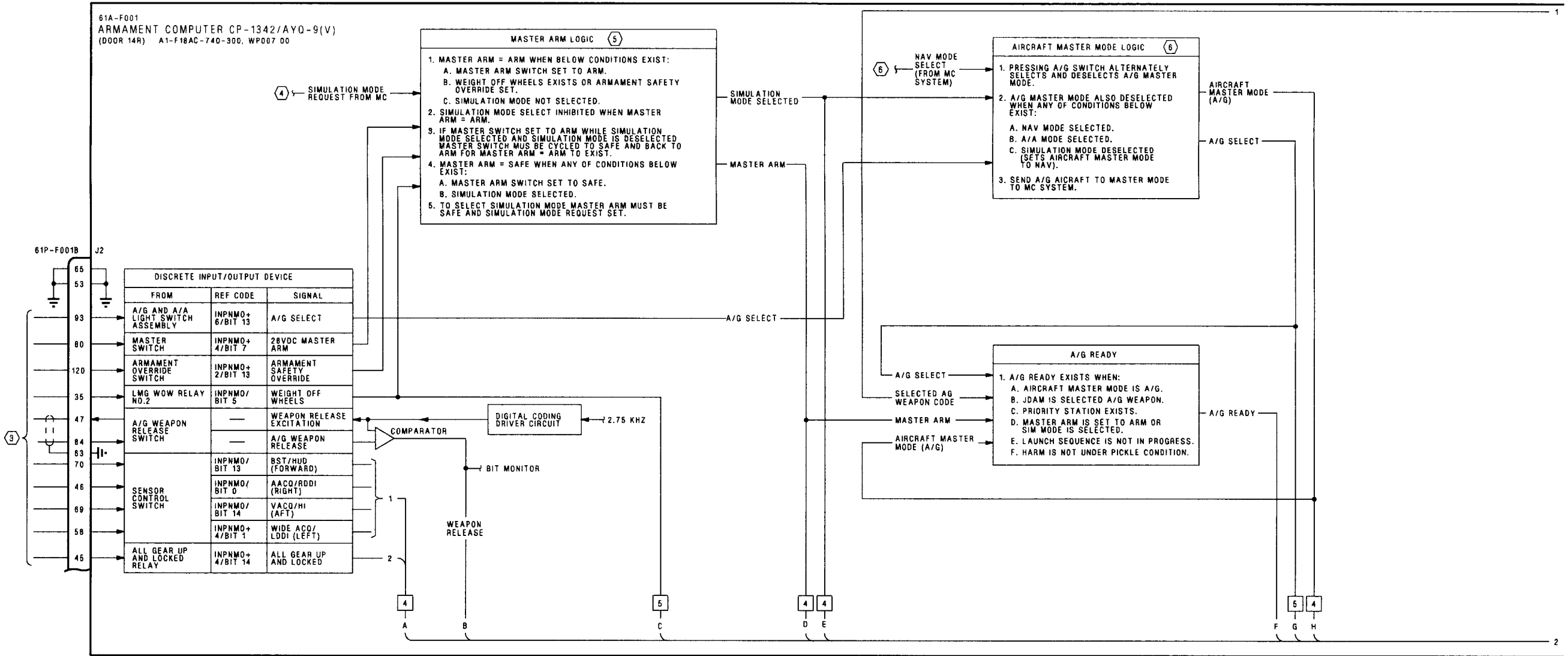


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 1)

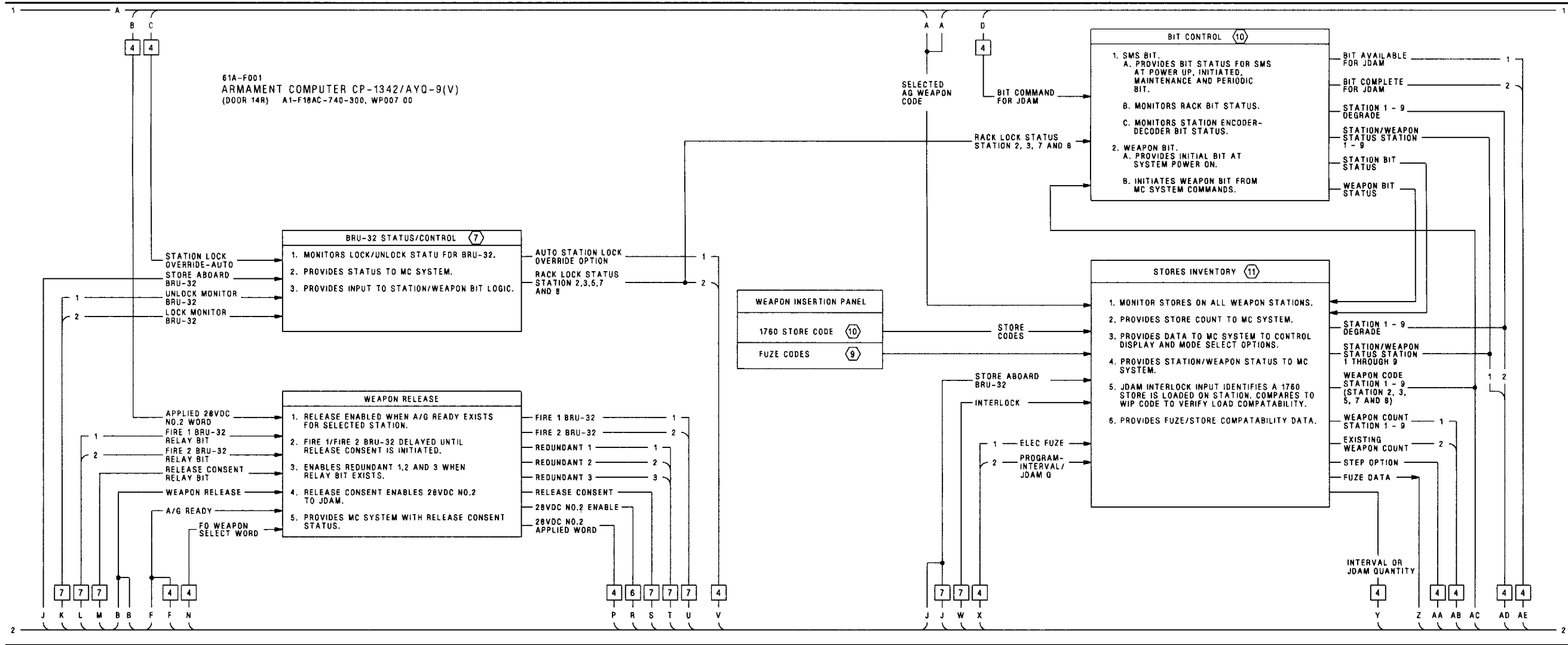


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 2)

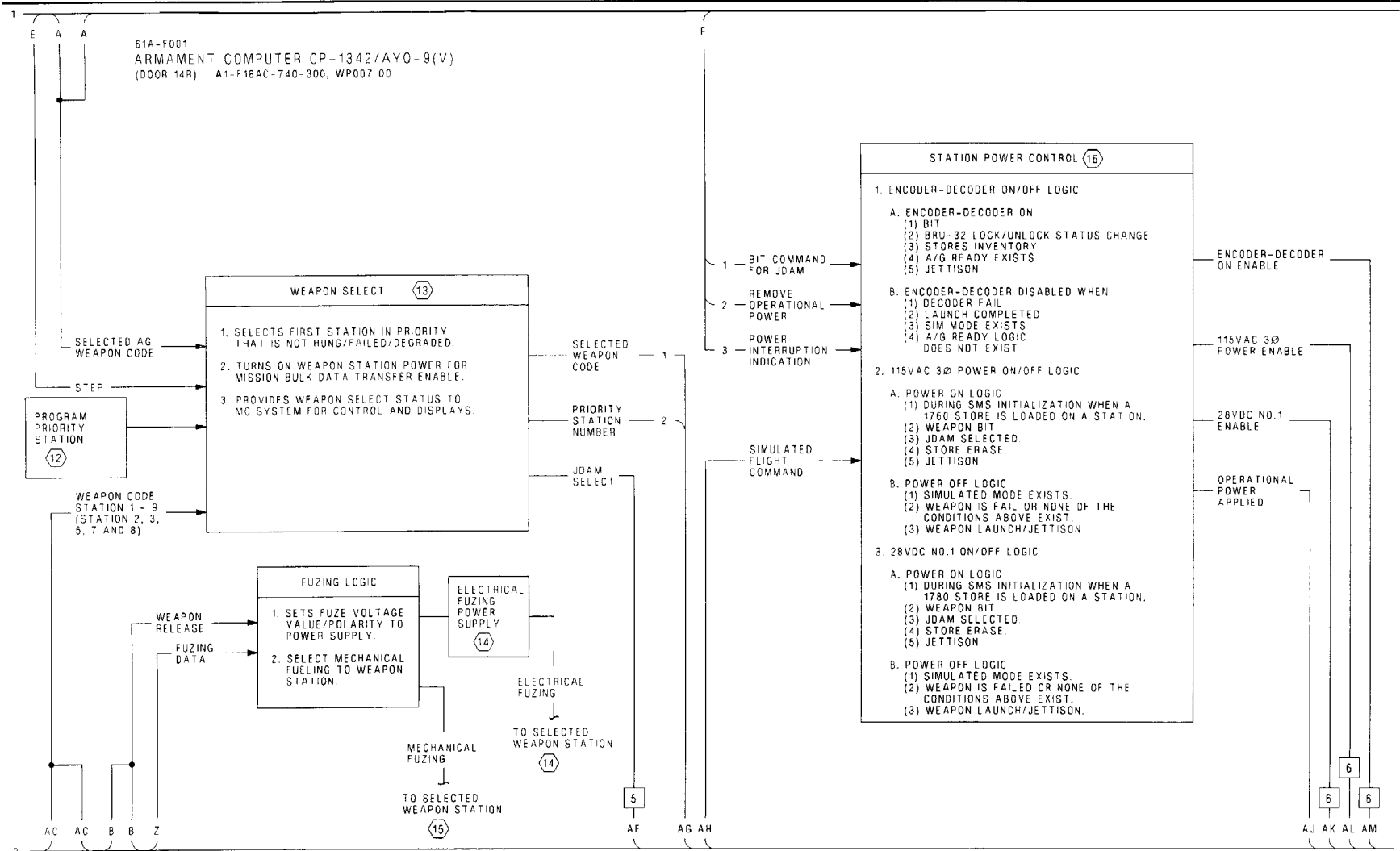


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 3)

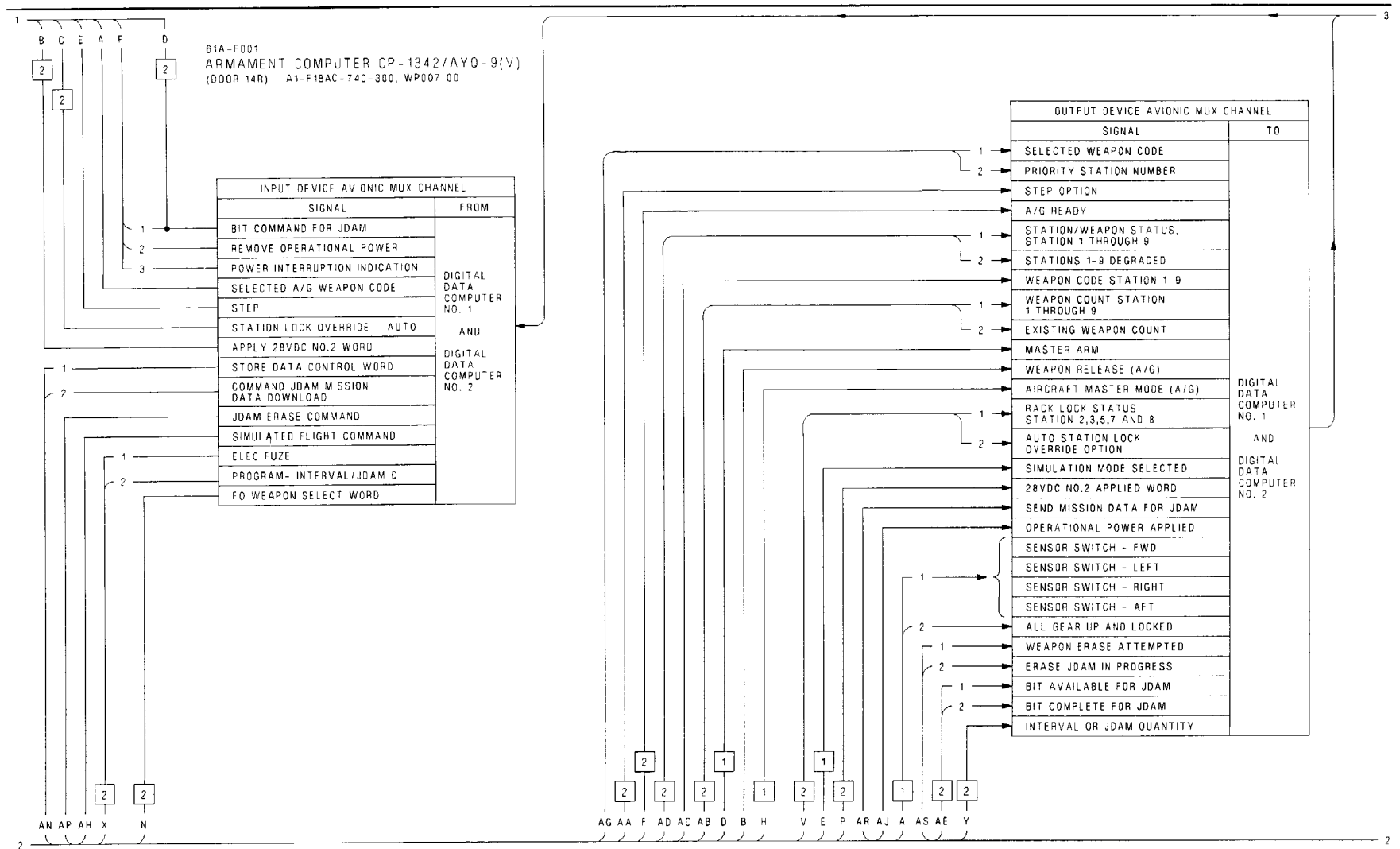


Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 4)

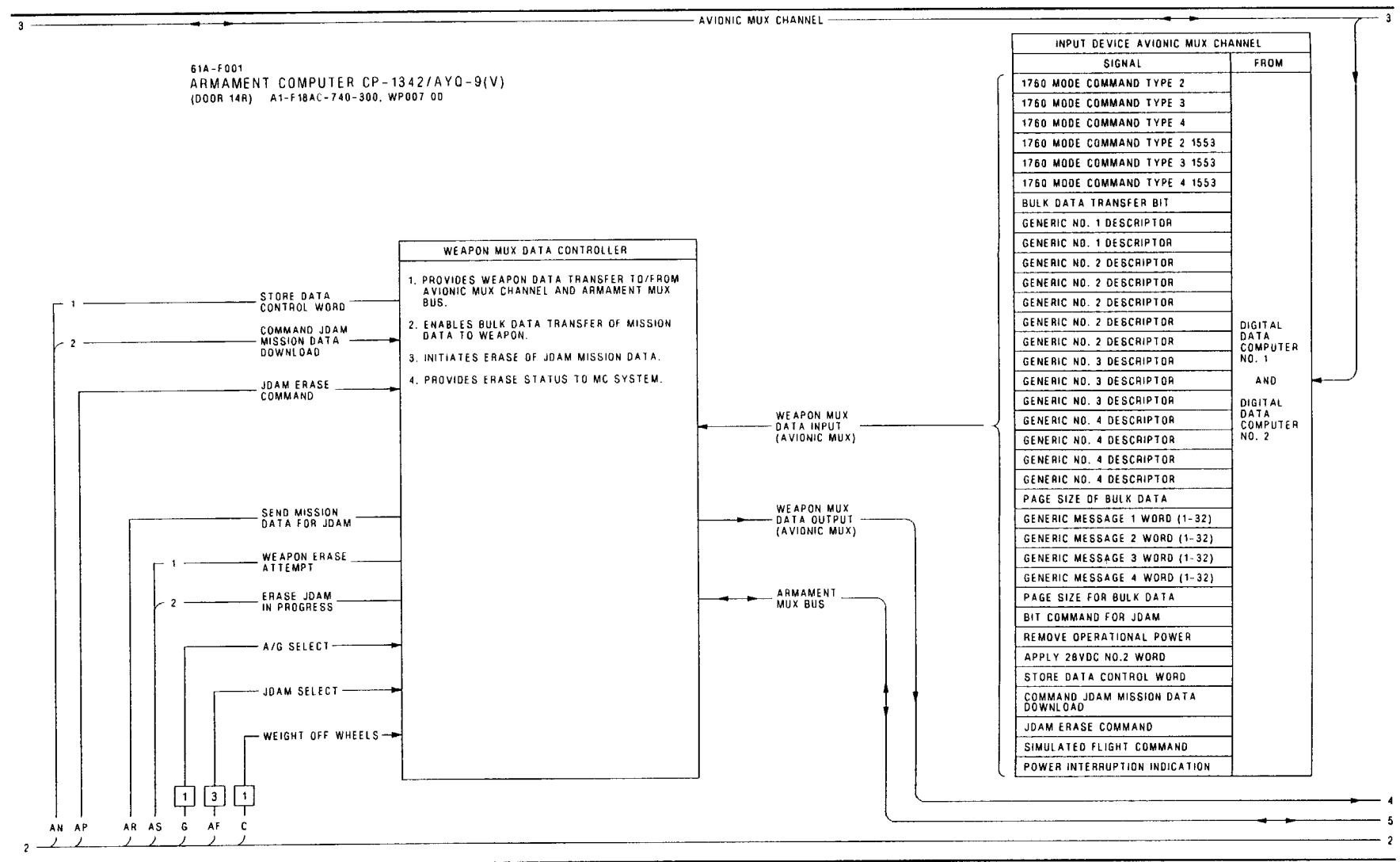


Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 5)

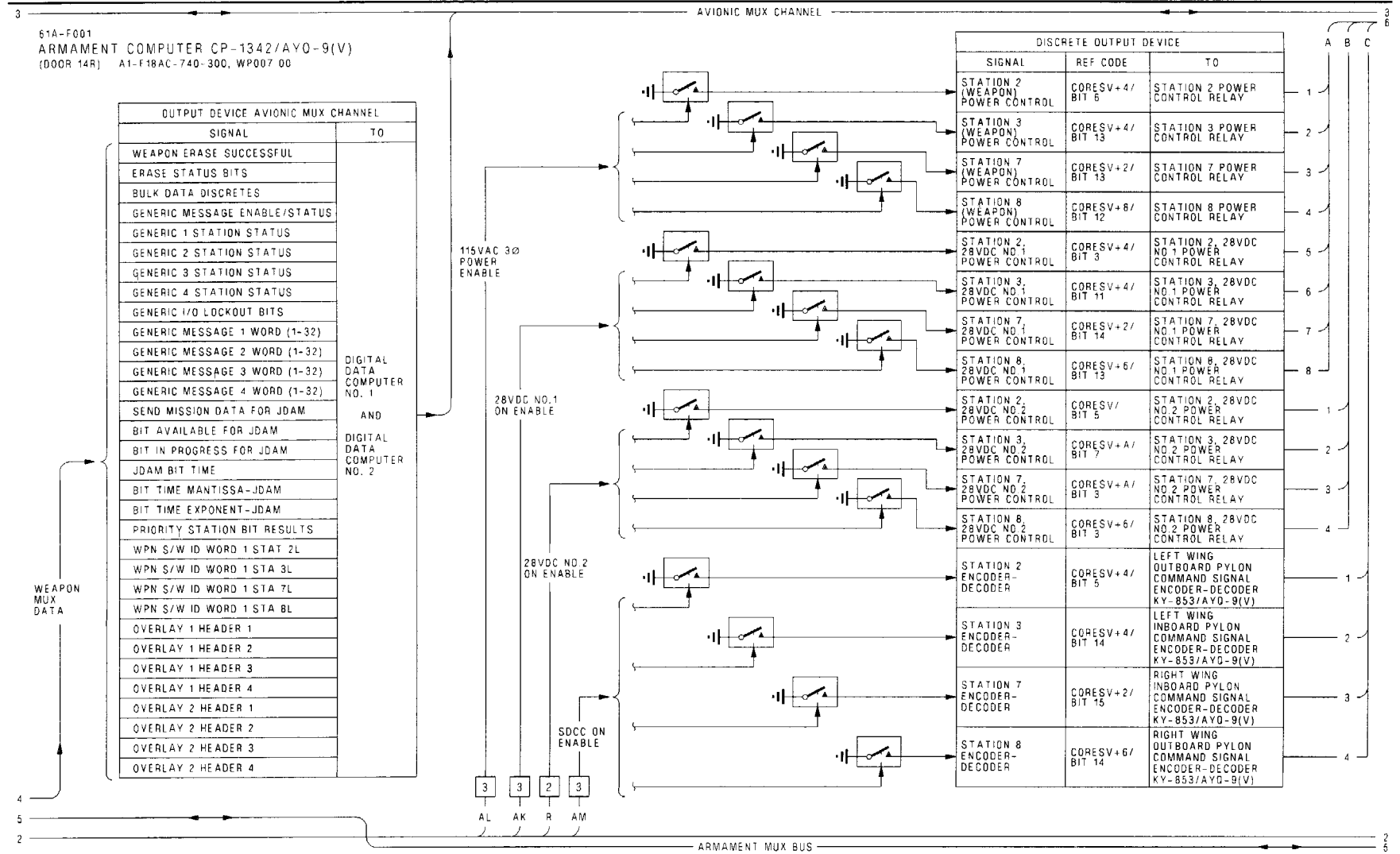


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 6)

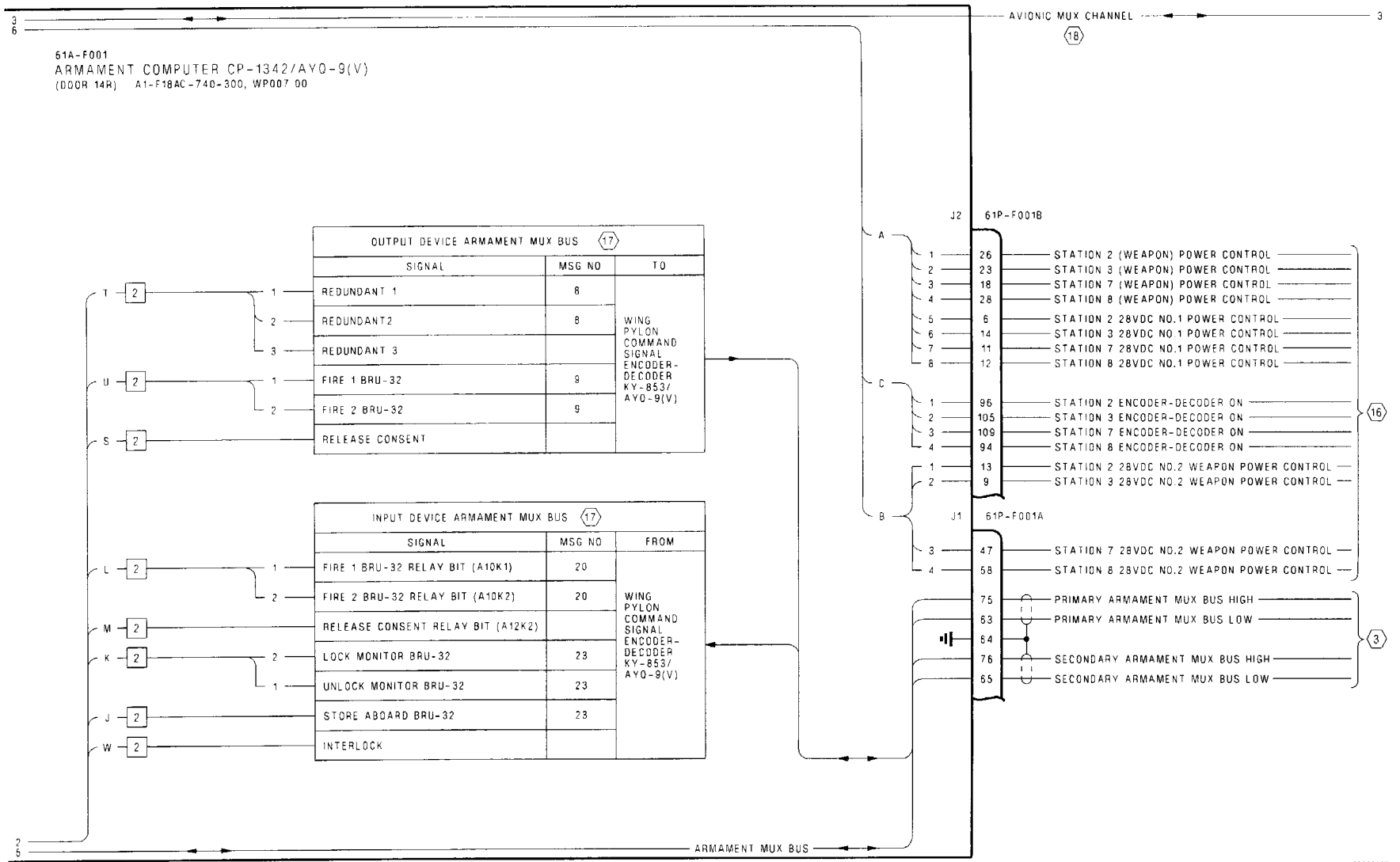


Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 7)

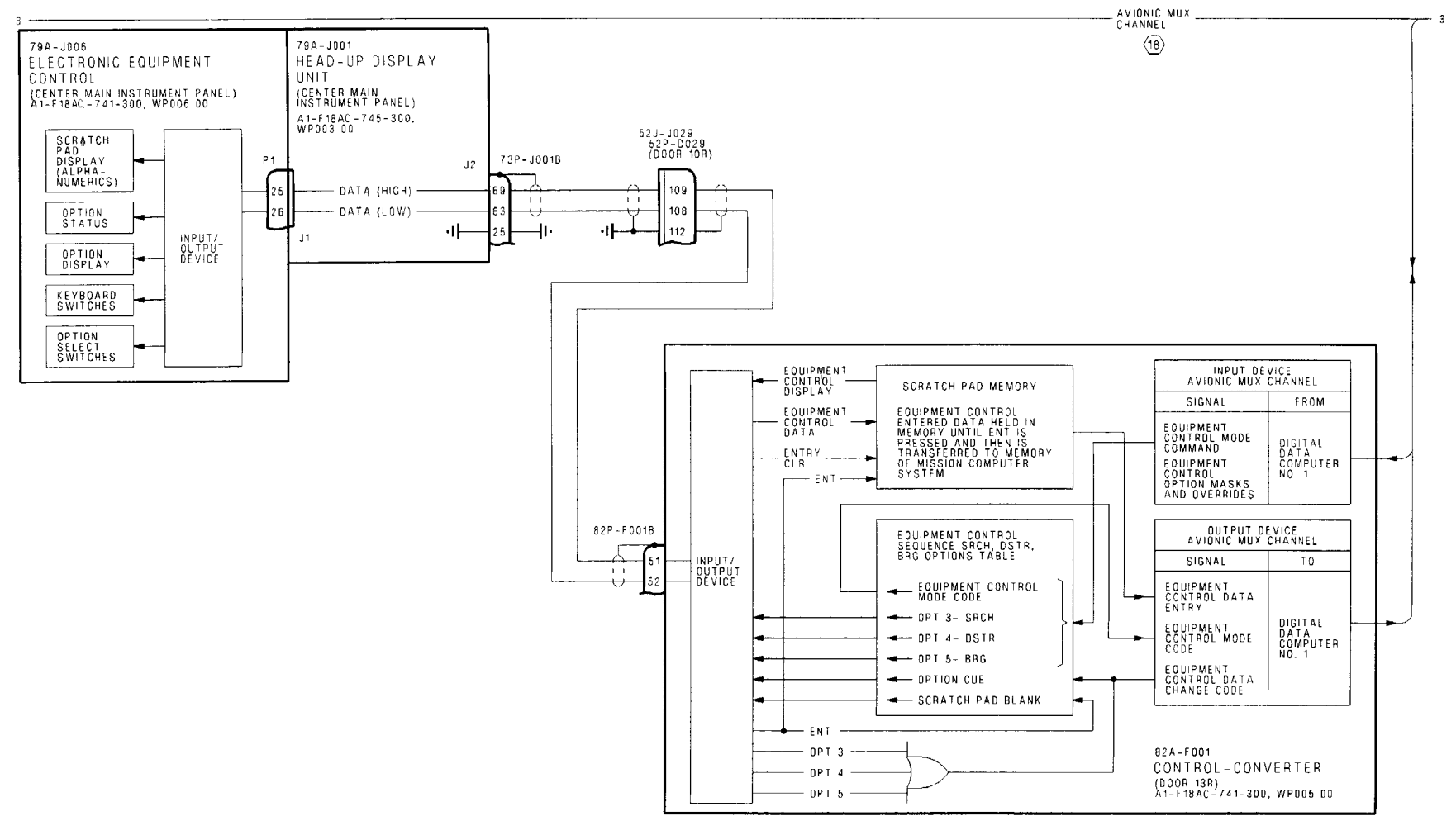


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Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 8)

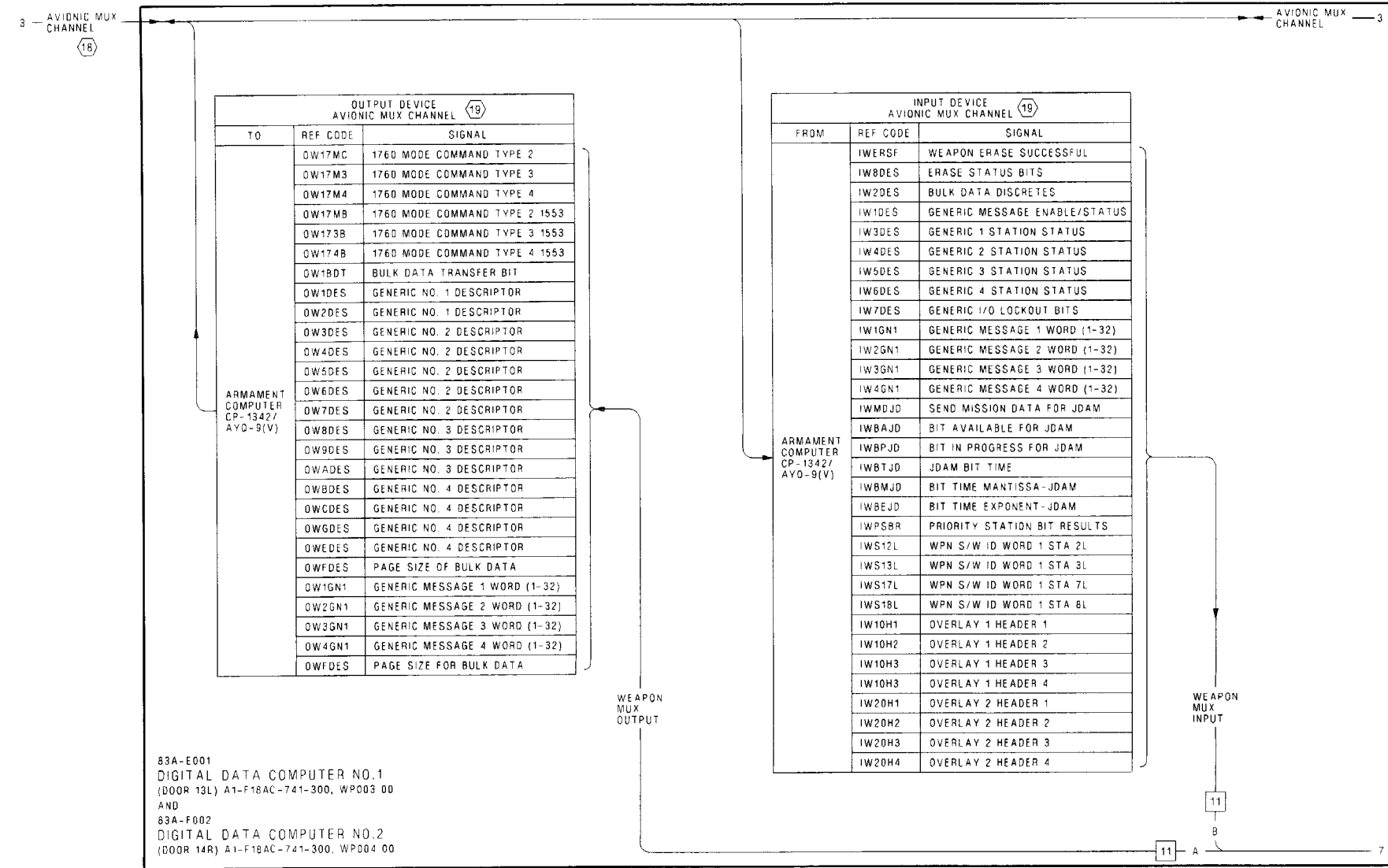


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 9)

03900109
Figure 1.

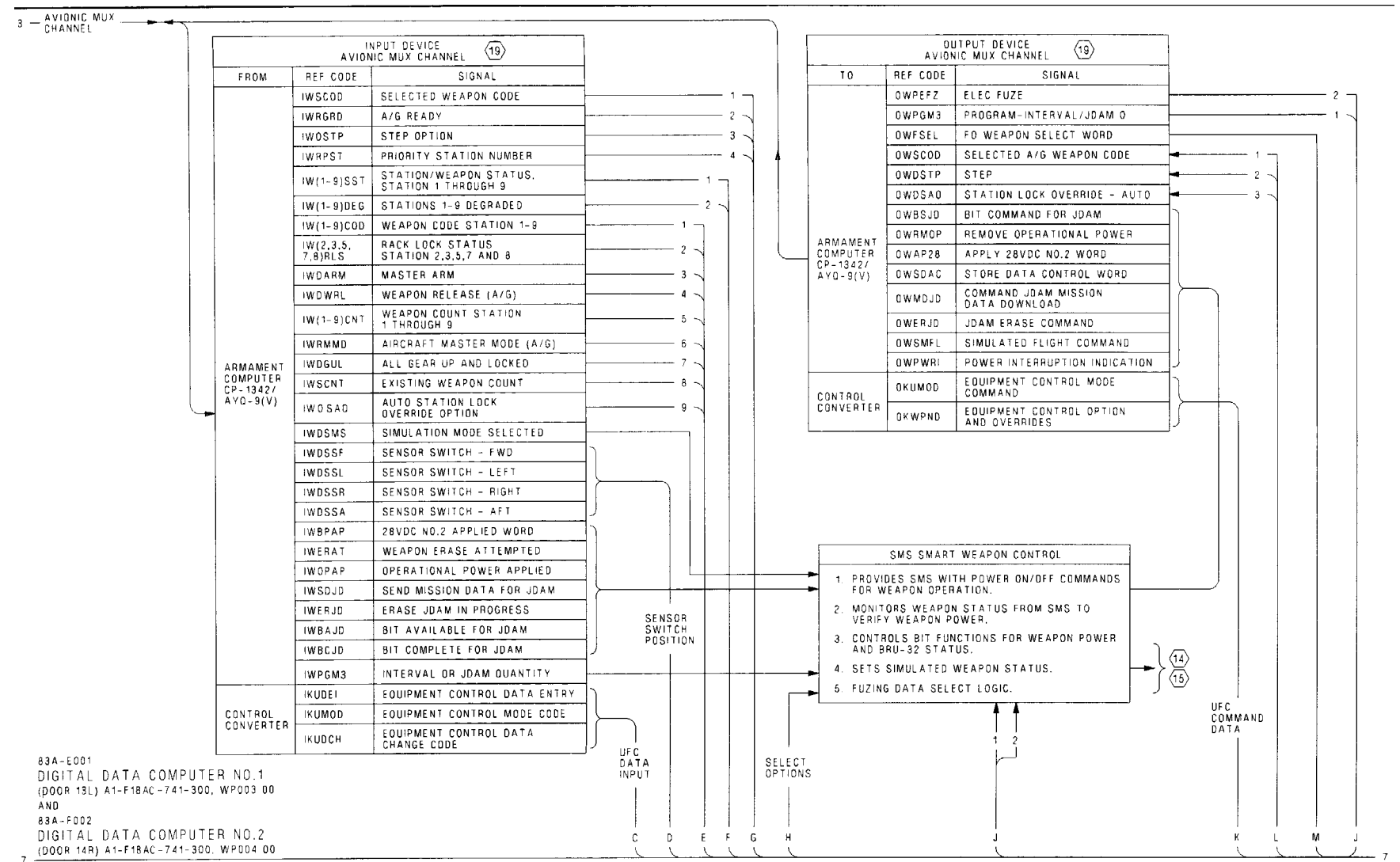


Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 10)

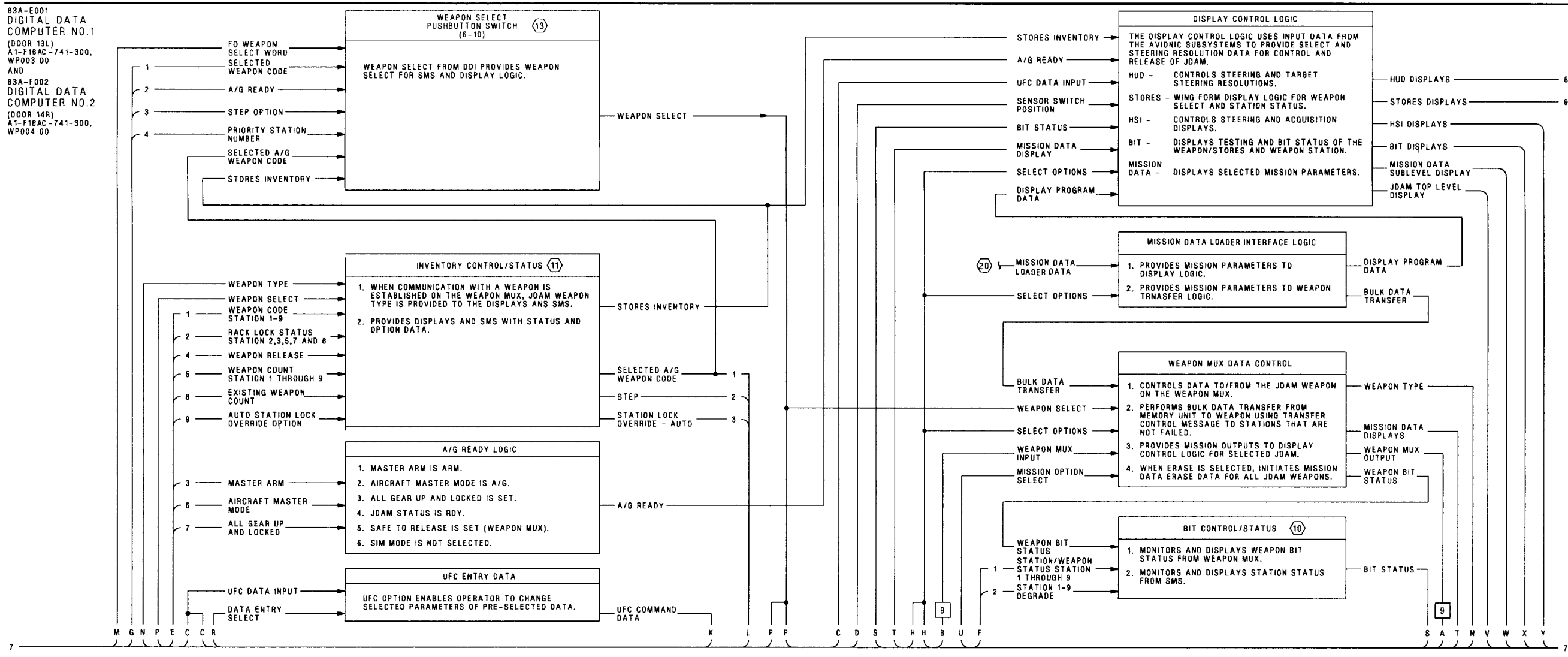


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 11)

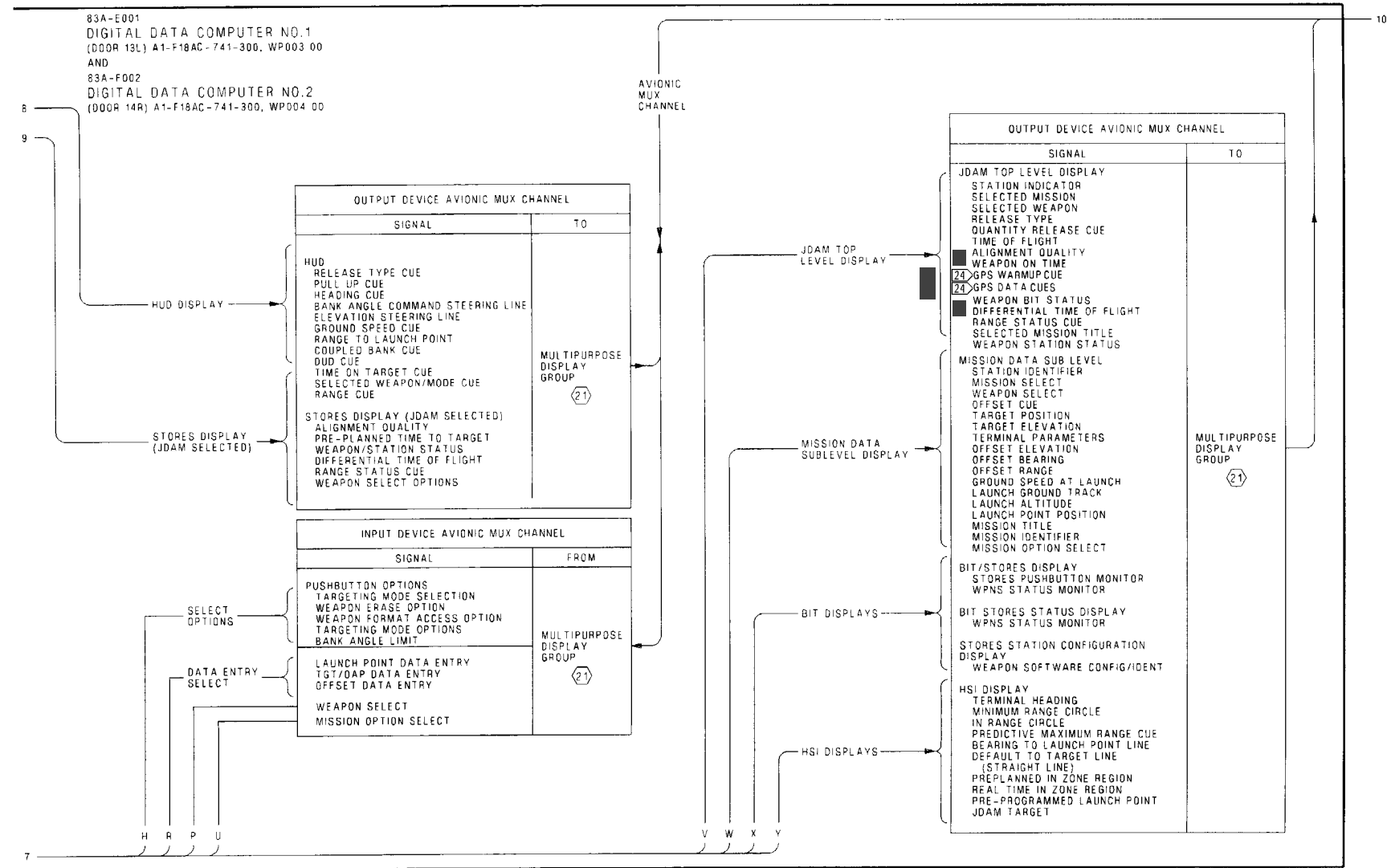


Figure 1.

Figure 1. GBU-31 JDM Avionic Interface Schematic (Sheet 12)

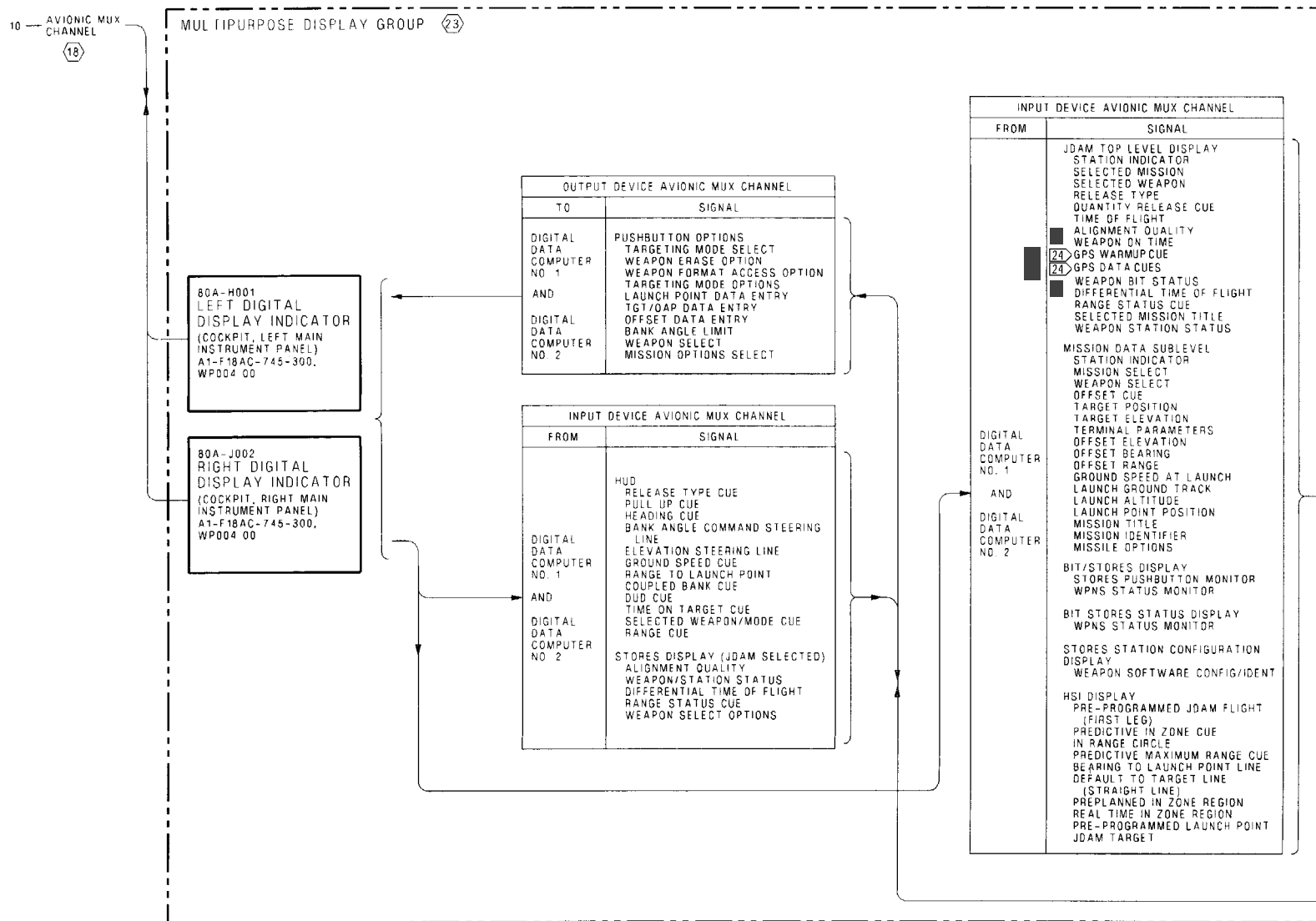


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 13)

Figure 1.

MULTIPURPOSE DISPLAY GROUP 23

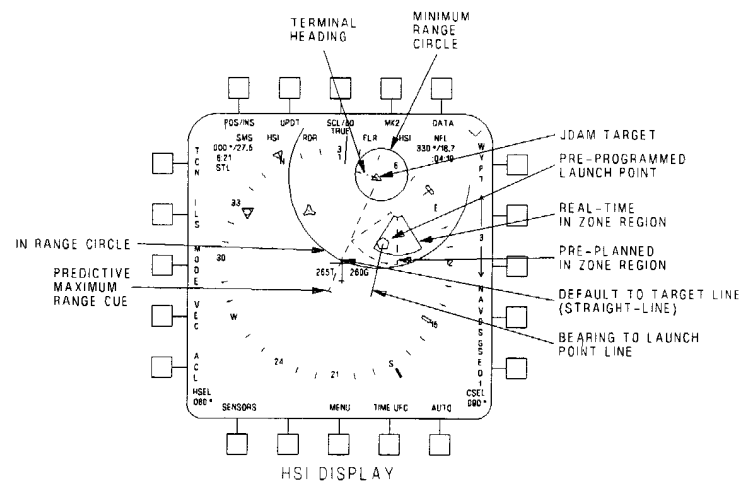
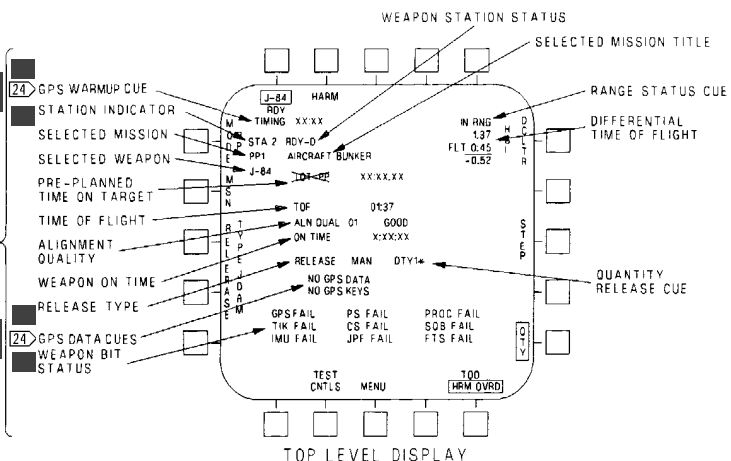
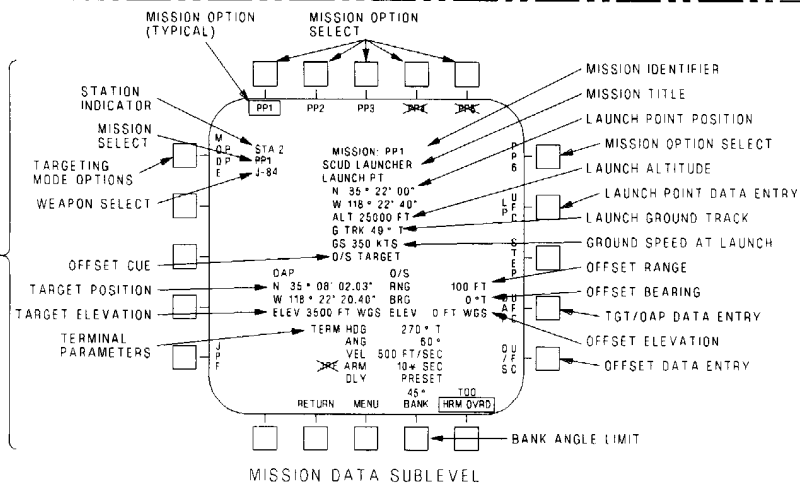
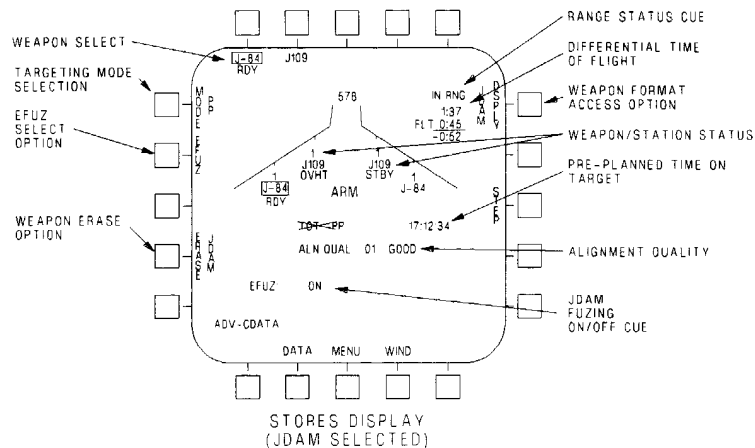
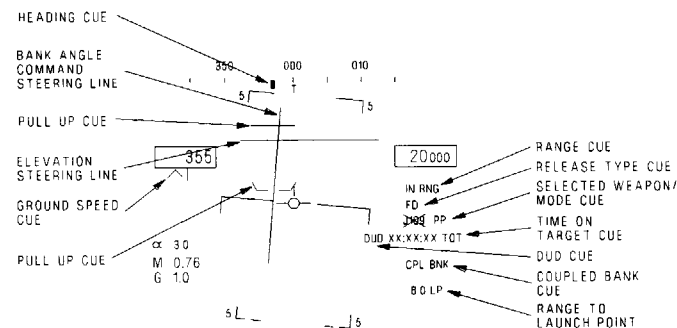
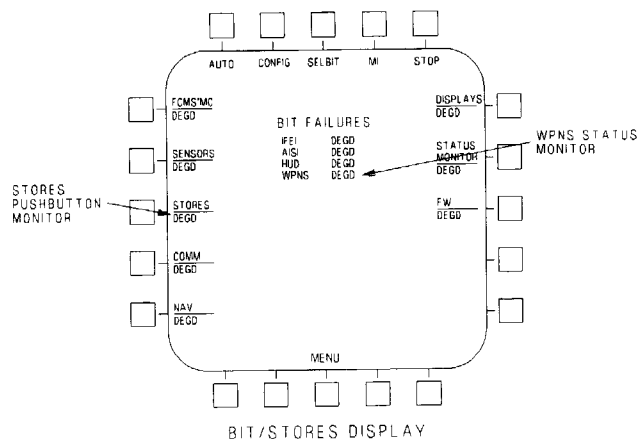


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 14)

Figure 1.

MULTIPURPOSE DISPLAY GROUP 23



FLIGHT DIRECTOR HUD CUES

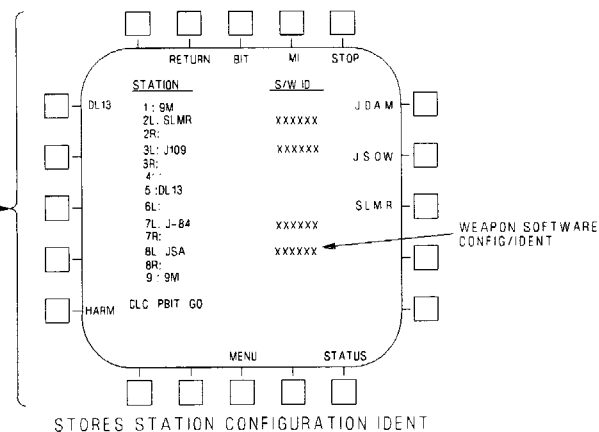
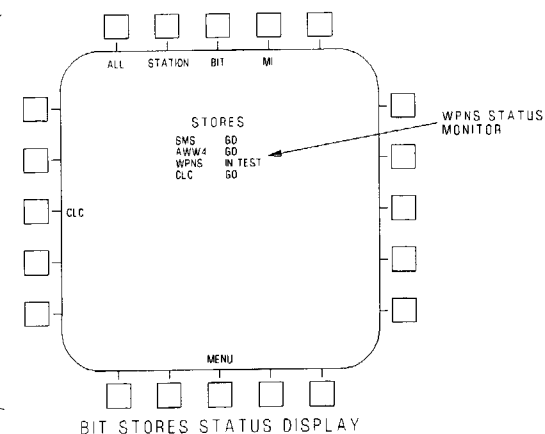


Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 15)

03900115
Figure 1.

LEGEND

1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:		
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)WDM-000.	13	WEAPON SELECT SCHEMATIC, WP016 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	14	ELECTRICAL FUZING SCHEMATIC, WP071 00.
	C. WHEN TESTING CONTINUITY, TEST FOR:	15	MECHANICAL FUZING SCHEMATIC, WP072 00.
	(1) SHORTS TO GROUND.	16	WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	17	ARMAMENT MUX BUS DATA, WP010 00.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	18	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
	(4) SHIELD CONTINUITY.	19	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
3	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	20	MISSION DATA LOADER FUNCTIONAL SCHEMATIC, A1-F18AC-580-500, WP021 00.
4	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	21	DISPLAY REF CODES ARE NOT SHOWN. TROUBLESHOOT AS LISTED BELOW: 1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. 2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. 3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
5	MASTER ARM SCHEMATIC, WP017 00.	22	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT AS LISTED BELOW: A1-F18AC-745-200, WP004 00 (F/A-18A).
6	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	23	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
7	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.	24	AFTER F/A-18 AFC 231.
8	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.		
9	FUZE TYPES AND ARMAMENT COMPUTER FUZE CODES, WP009 00.		
10	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.		
11	STORES INVENTORY SCHEMATIC, WP015 00.		
12	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.		

Figure 1.

Figure 1. GBU-31 JDAM Avionic Interface Schematic (Sheet 16)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 AIM-120 AMRAAM

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the two AIM-120 AMRAAMs when loaded on weapon station 2, 3, 7, or 8.
3. The location of the components can be seen in WP008 00.

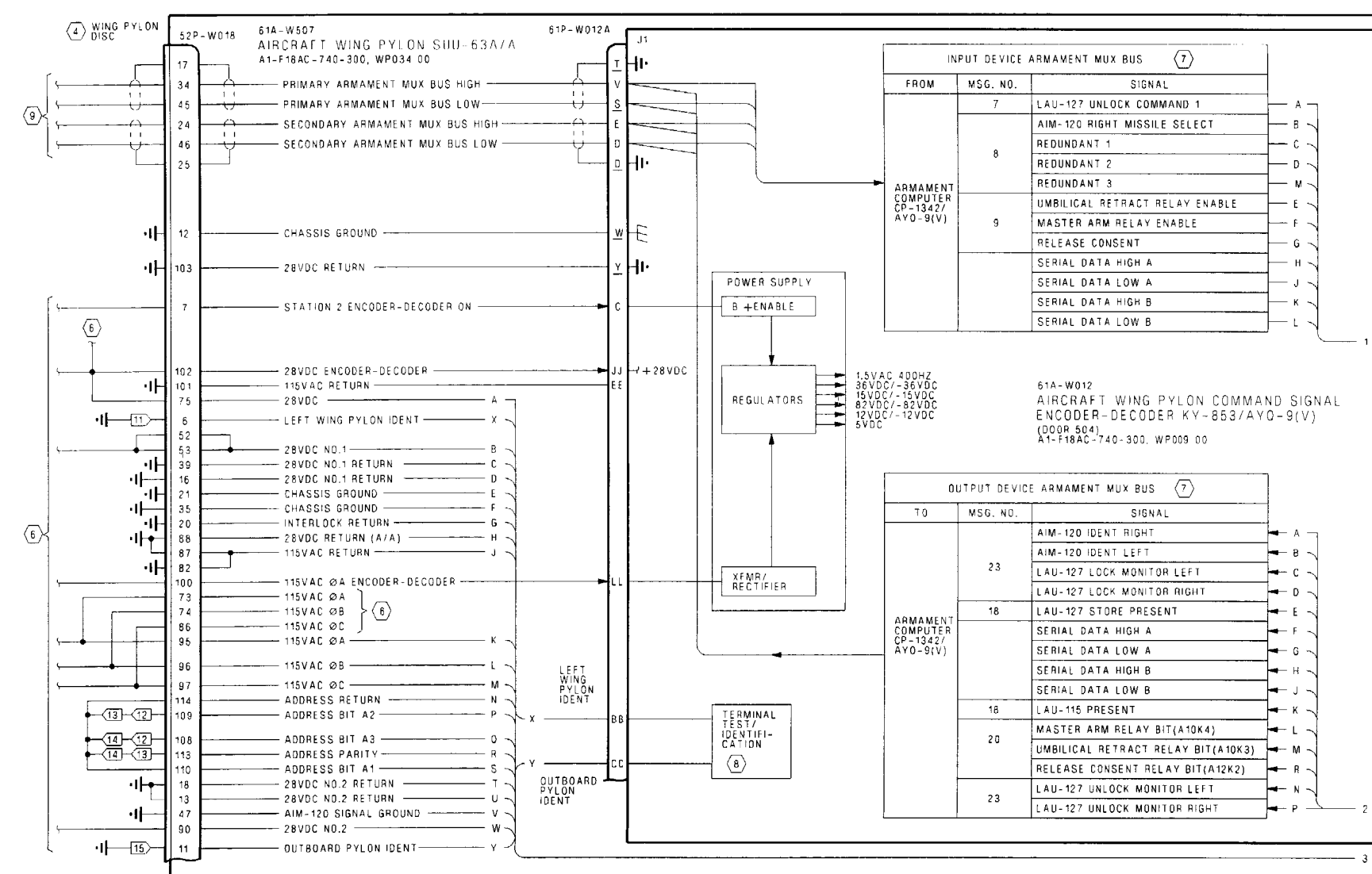


Figure 1. Figure 1. Weapon Station 2, 3, 7, 8 AIM-120 AMRAAM Schematic (Sheet 1) Figure 1.



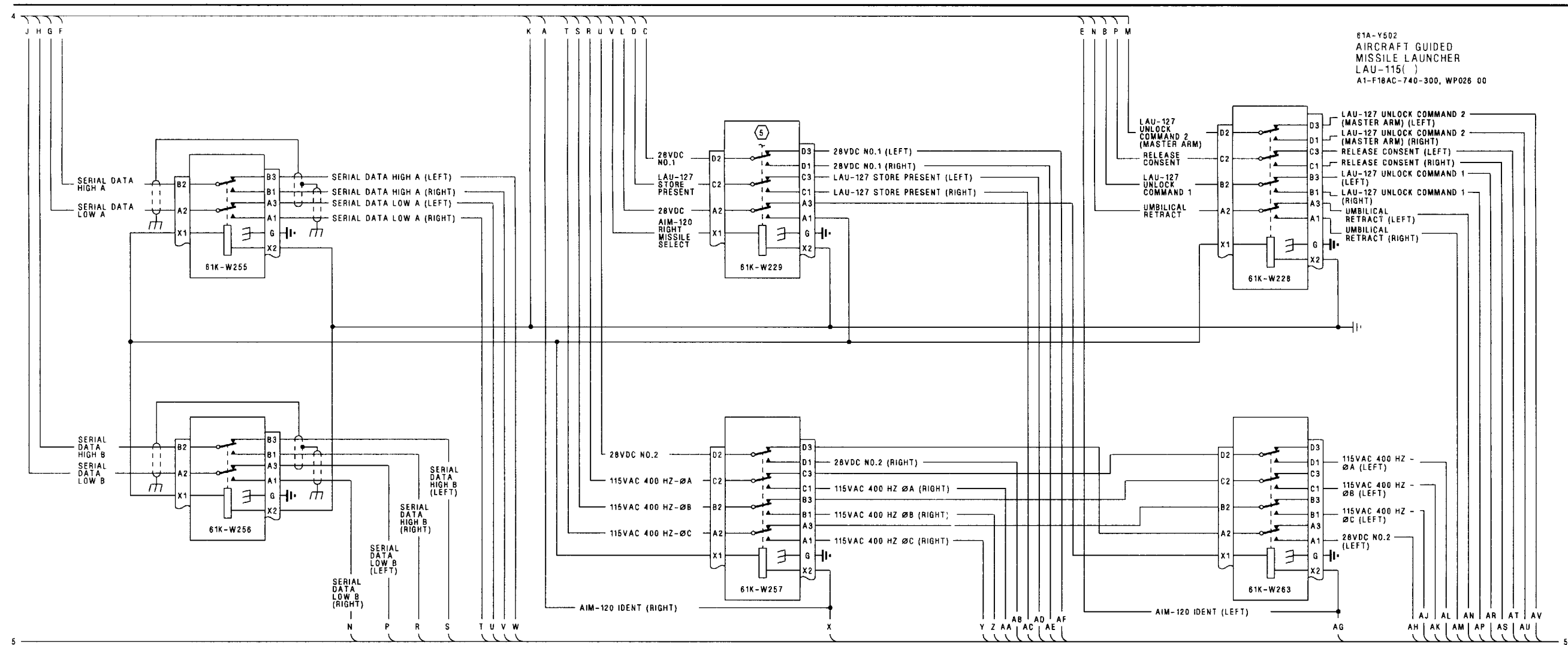


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-120 AMRAAM Schematic (Sheet 3)



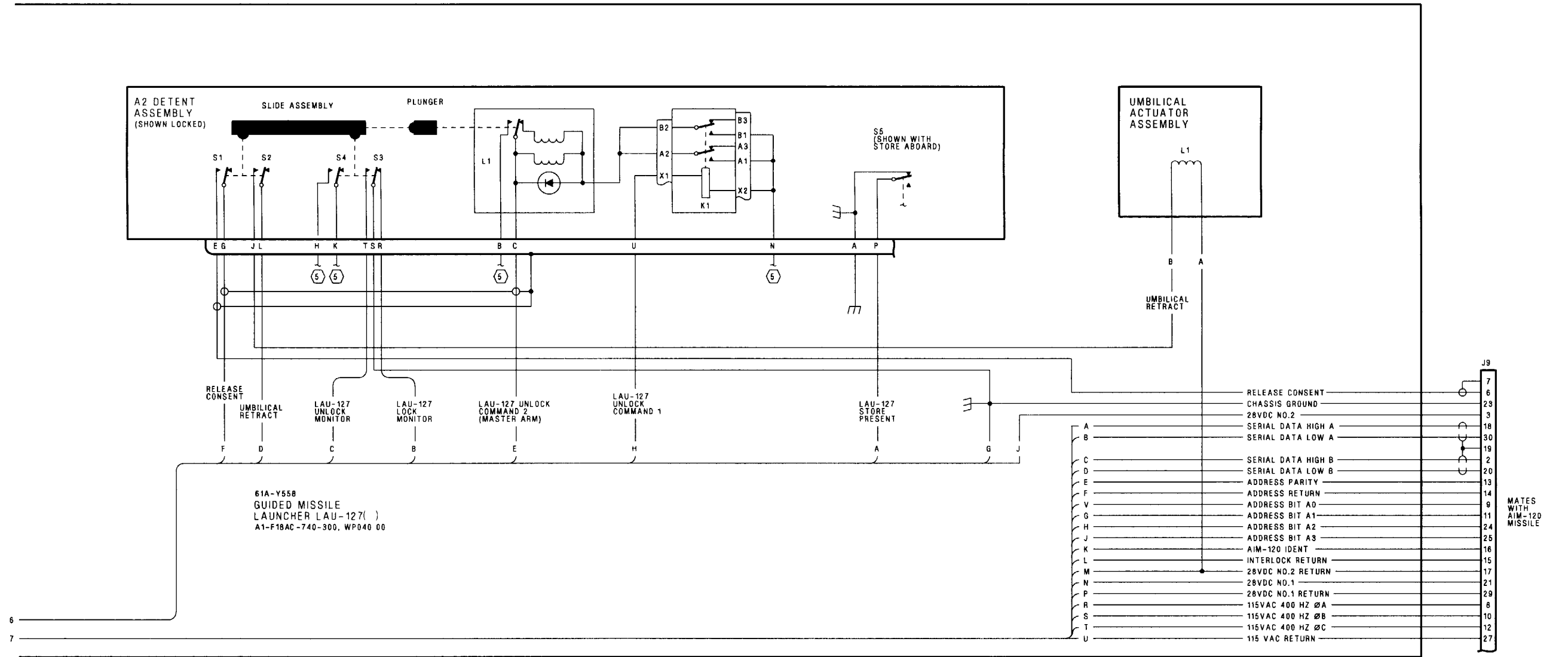


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-120 AMRAAM Schematic (Sheet 5)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
- ④ PYLON DISCONNECT AND DOOR LOCATIONS:
 - STATION 2 - 52J-U062 (DOOR 61L).
 - STATION 3 - 52J-U063 (DOOR 60L)
 - STATION 7 - 52J-V067 (DOOR 60R)
 - STATION 8 - 52J-V068 (DOOR 61R).
- ⑤ AIM-9 SIDEWINDER AVIONIC INTERFACE SCHEMATIC, WP048 00.
- ⑥ APPLICABLE WEAPON POWER CONTROL SCHEMATIC:
 - WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
 - WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
 - WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
 - WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
- ⑦ ARMAMENT MUX BUS DATA, WP010 00.
- ⑧ BUILT-IN TEST SCHEMATIC, WP024 00.
- ⑨ AIM-120 AMRAAM AVIONIC INTERFACE SCHEMATIC, WP042 00.
- ⑩ WEAPON STATION 2, 3, 7, 8 AIM-7 SPARROW SCHEMATIC, WP043 00.
- 11 STATION 2 AND 3.
- 12 STATION 7.
- 13 STATION 3.
- 14 STATION 8.
- 15 STATION 2 AND 8.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-120 AMRAAM Schematic (Sheet 6)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 4, 6 AIM-120 AMRAAM

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Weapon Station 4, 6 AIM-120 AMRAAM Schematic, Figure 1	2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the two AIM-120 AMRAAM when loaded on weapon station 4 or 6.
3. The location of the components can be seen in WP008 00.

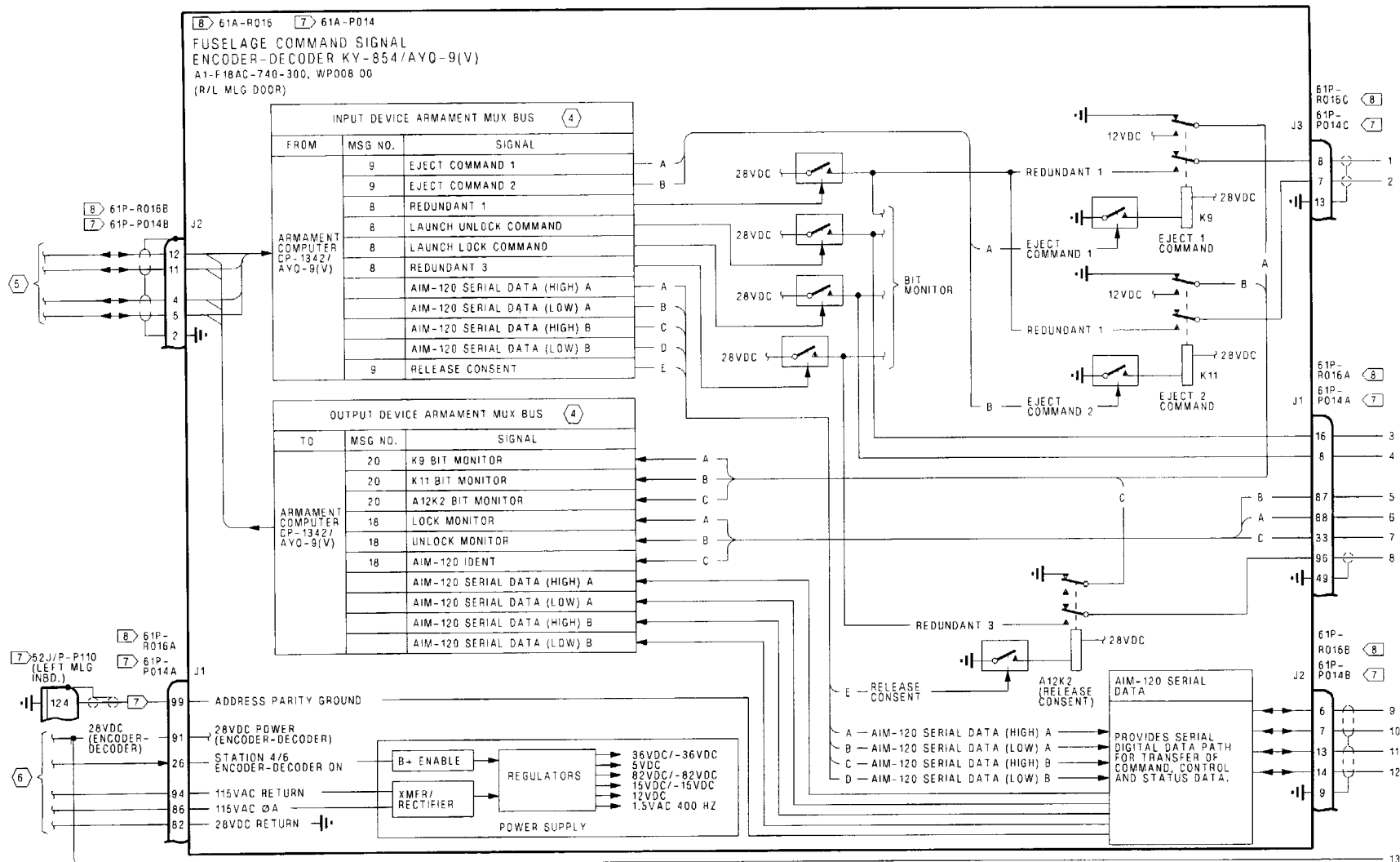







Figure 1.

Figure 1. Weapon Station 4, 6 AIM-120 AMRAAM Schematic (Sheet 1)



Figure 1. Weapon Station 4, 6 AIM-120 AMRAAM Schematic (Sheet 2)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
-  ARMAMENT MUX BUS DATA, WP010 00.
-  AIM-120 AMRAAM AVIONIC INTERFACE SCHEMATIC, WP042 00.
-  APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:
WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00.
WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00.
-  STATION 4.
-  STATION 6.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AIM-120 AMRAAM AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 211	-	AN/APG-65, Replacement with AN/APG-73 (ECP-MDA-F/A-18-00508)	15 Jul 95	ECP Coverage Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.
2. The schematic in this work package shows aircraft related system functions for the AIM-120 AMRAAM. This schematic supports weapon sta-
- tion 2, 3, 7, 8 and 4, 6 AIM-120 AMRAAM schematics.
3. The location of the components can be seen in WP008 00.

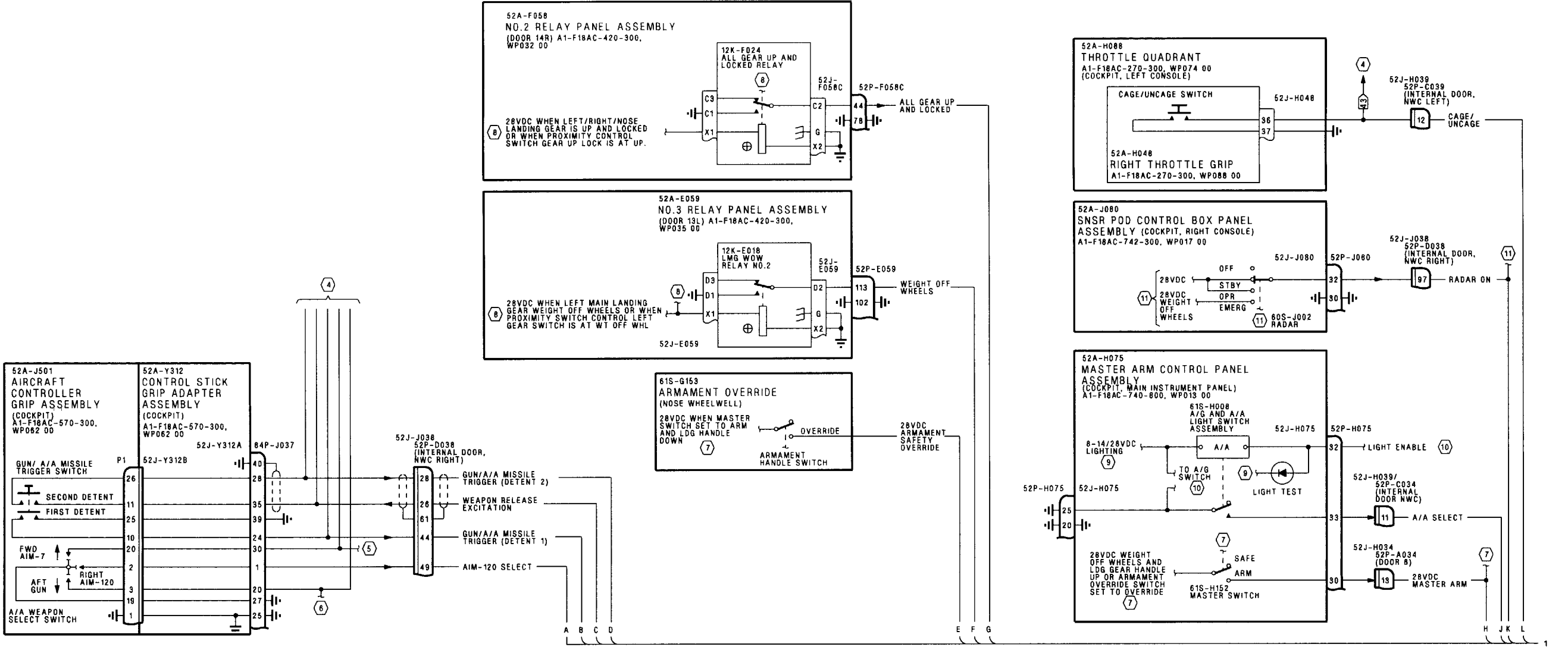


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 1)

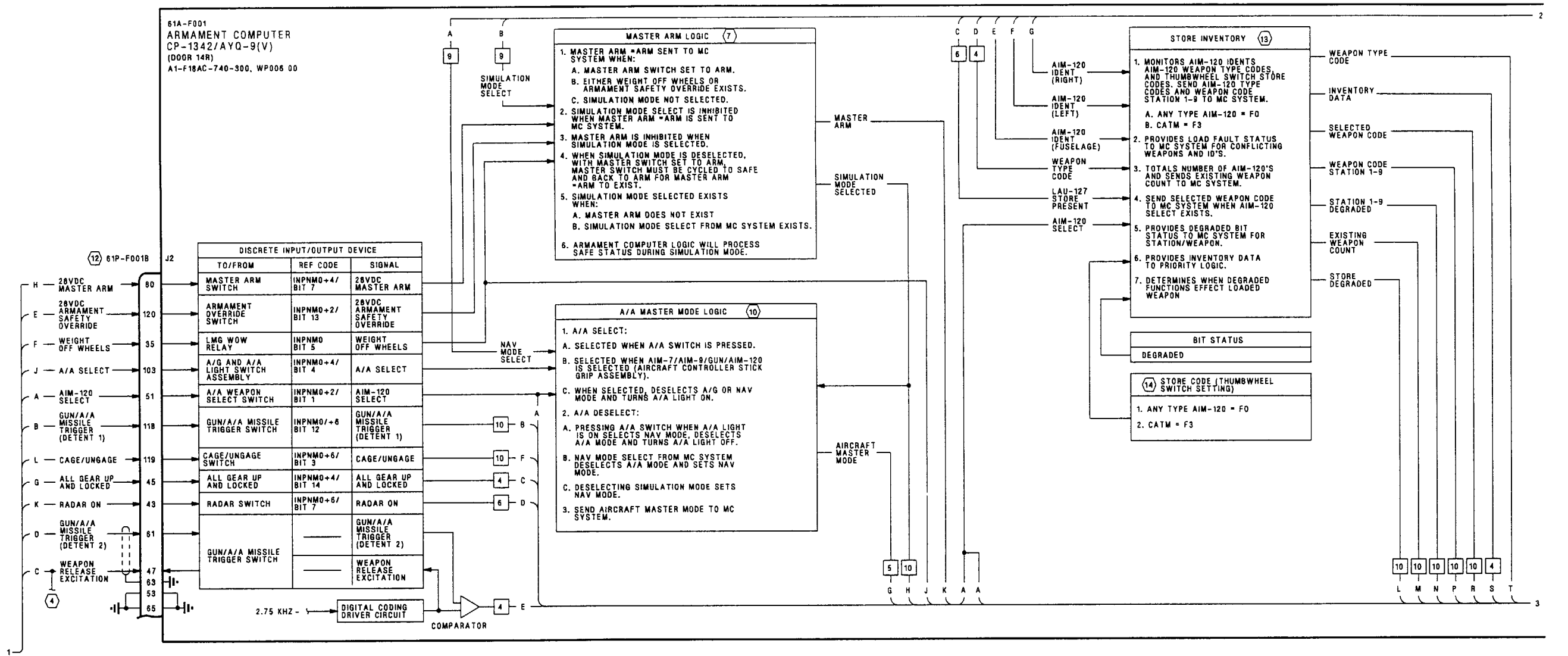


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 2)

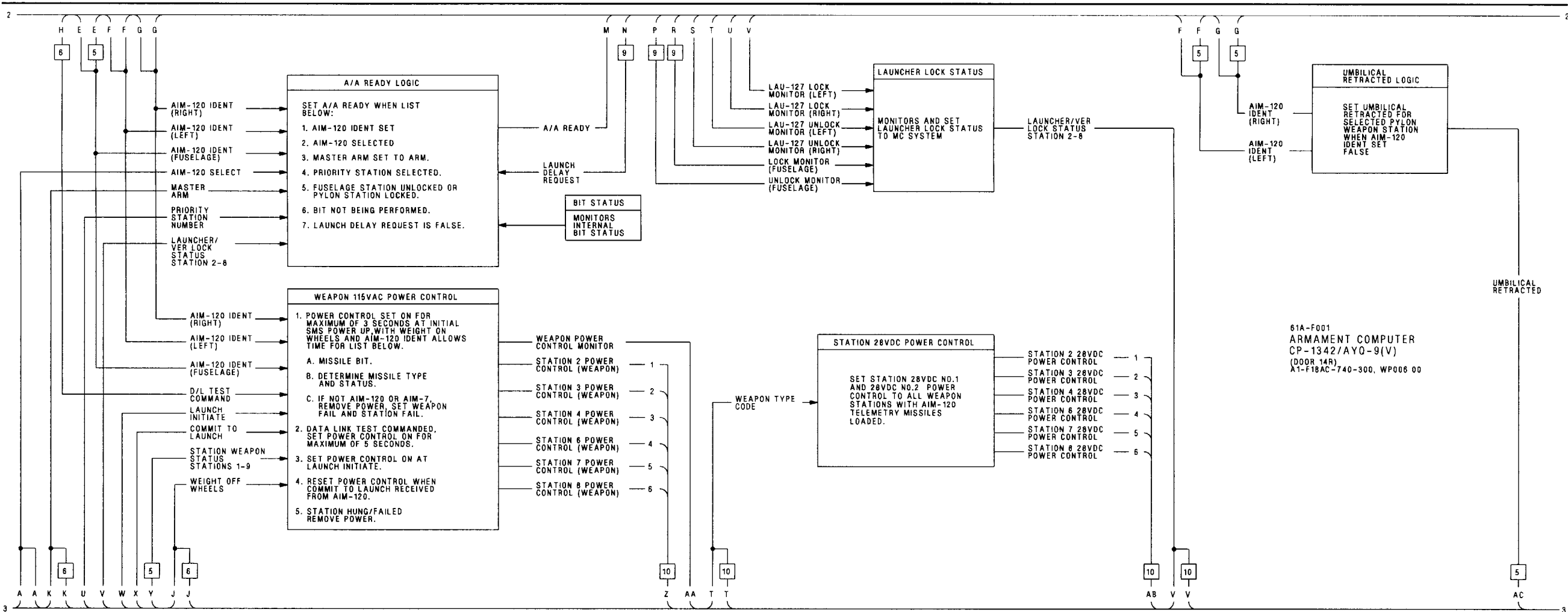


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 3)

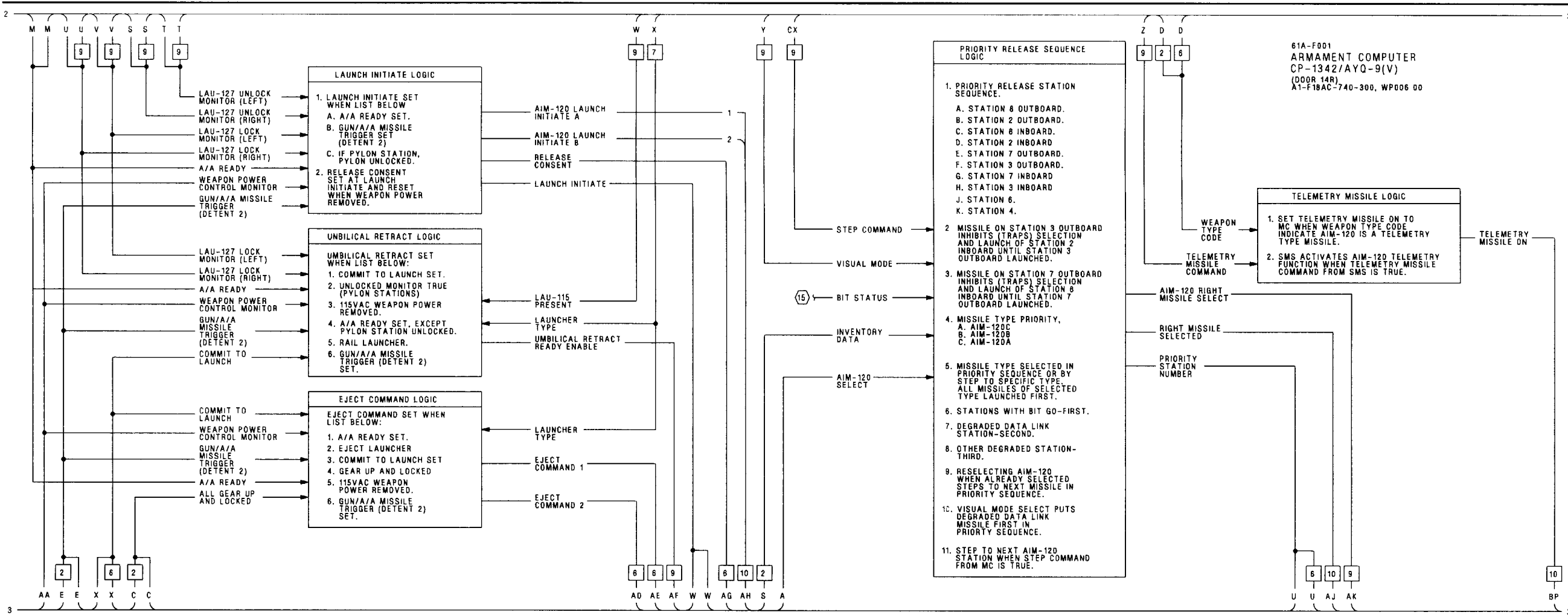


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 4)

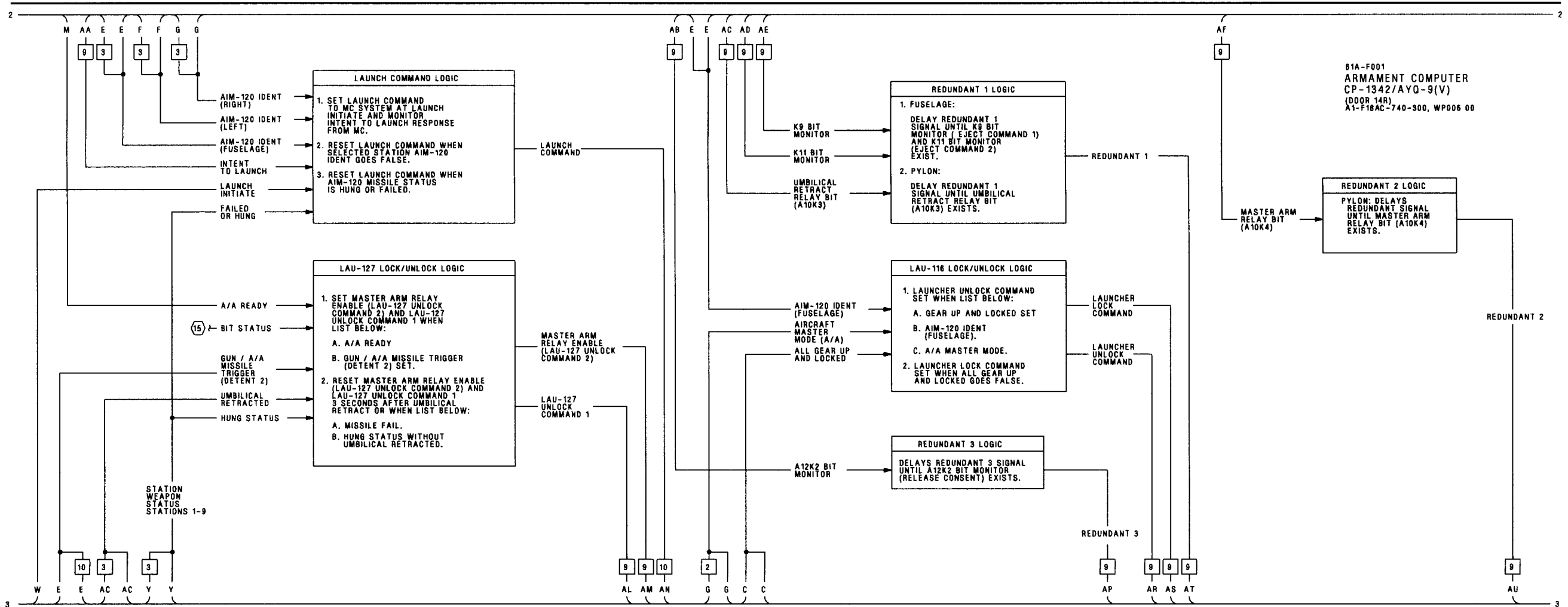


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 5)

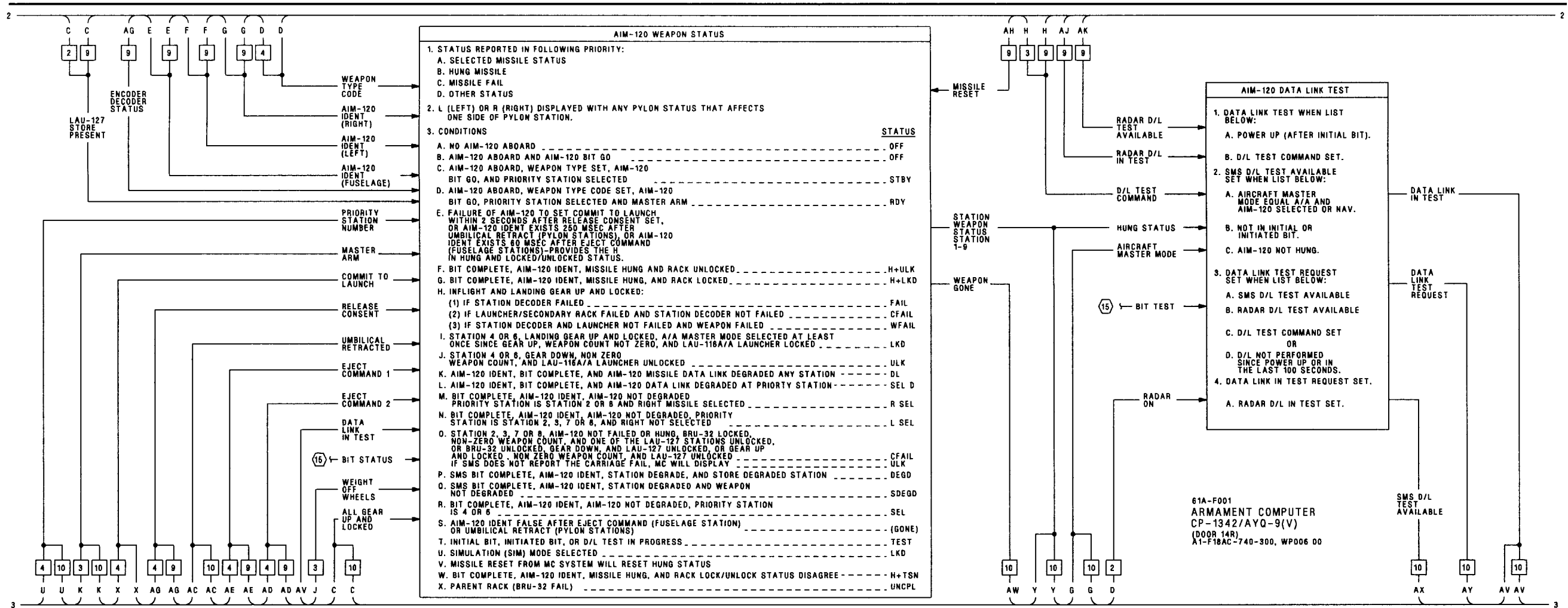


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 6)

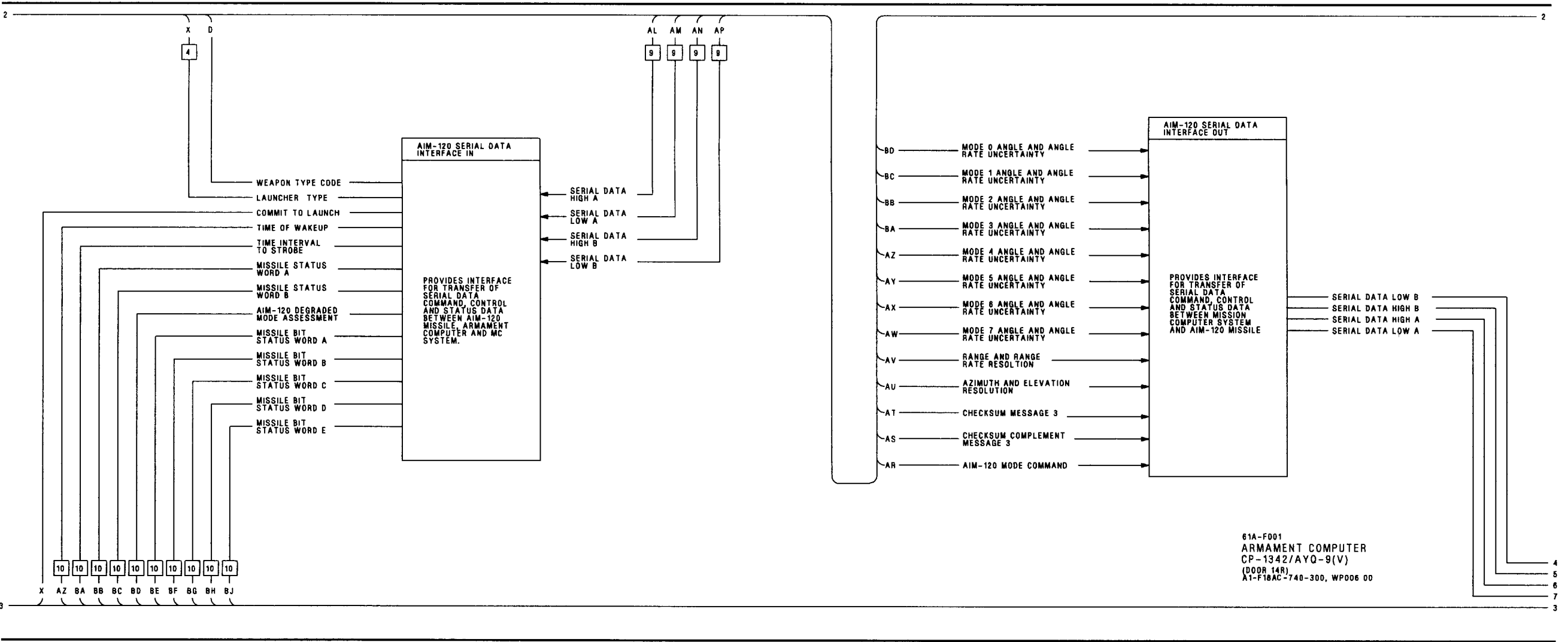


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 7)

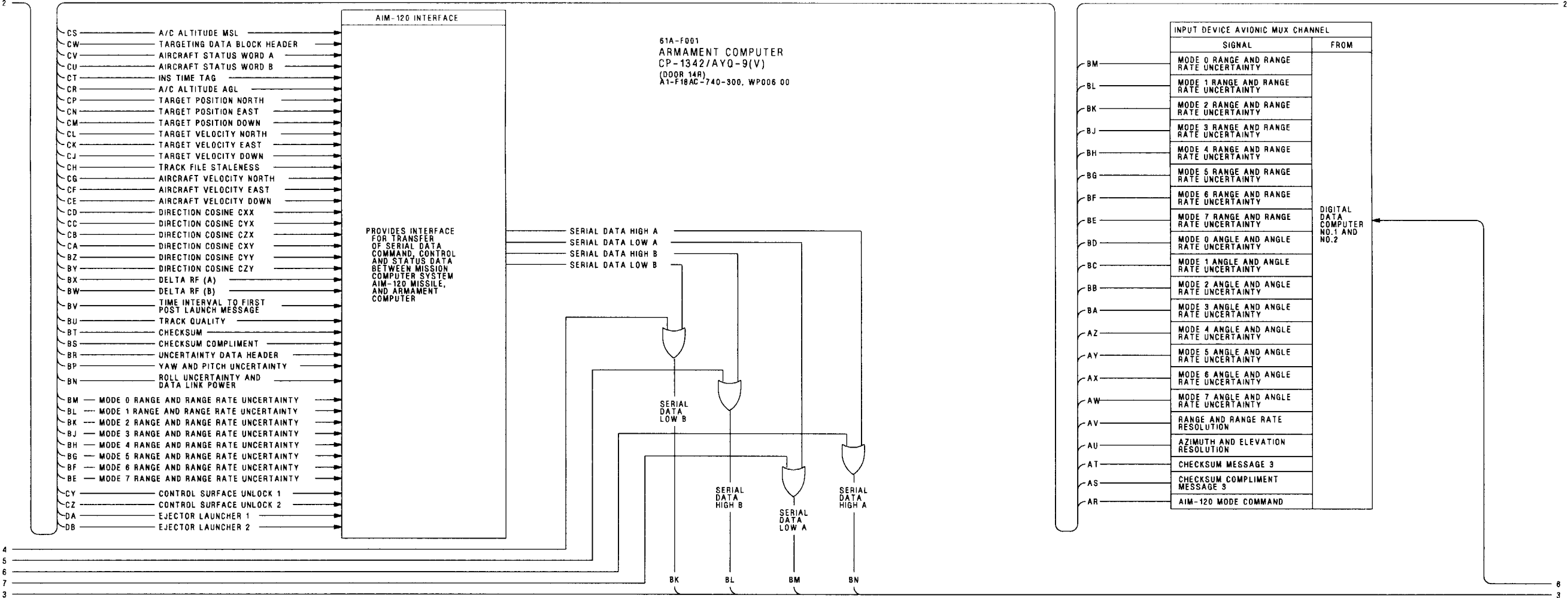


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 8)

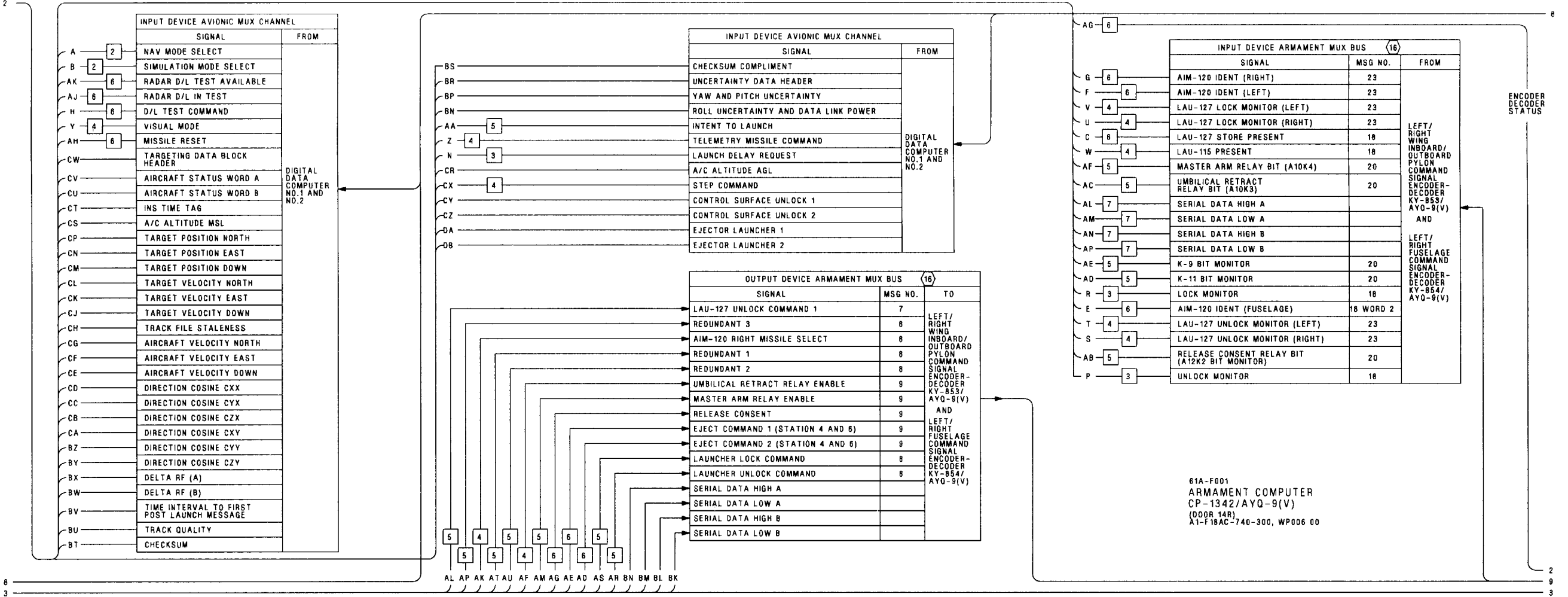


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 9)

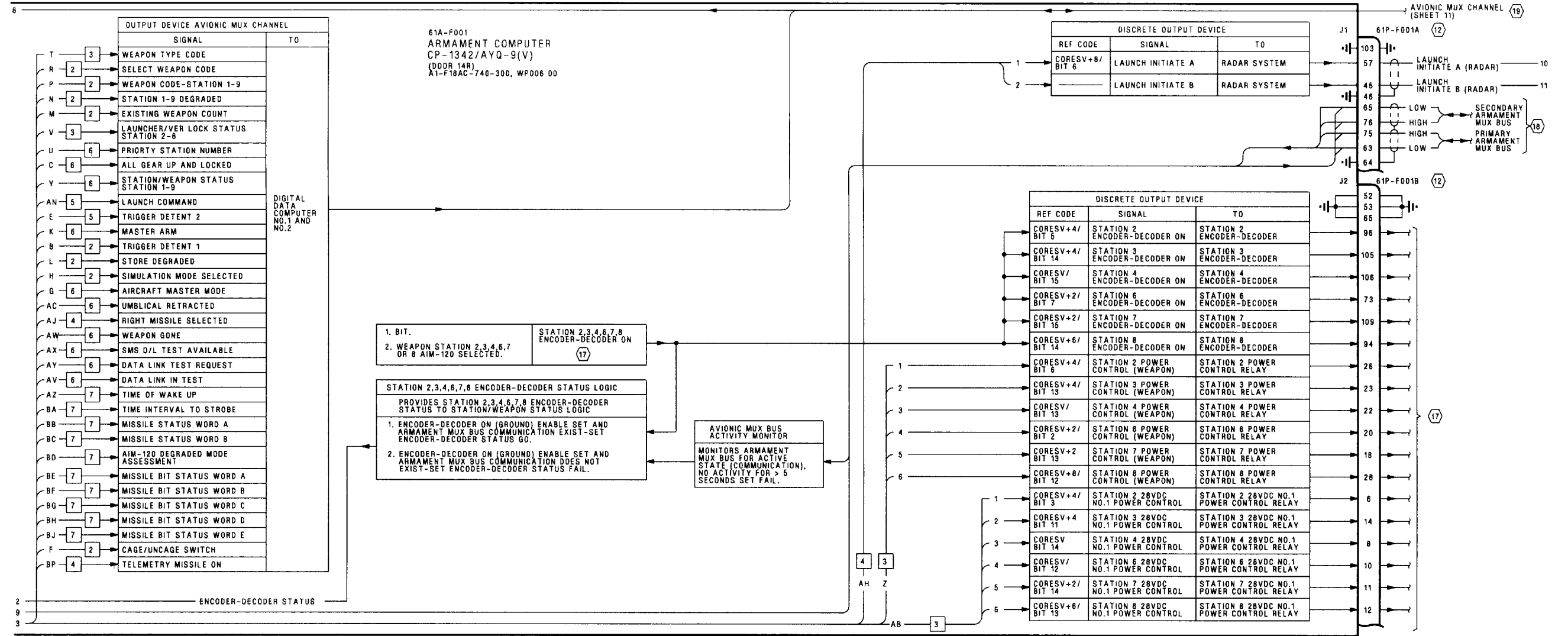
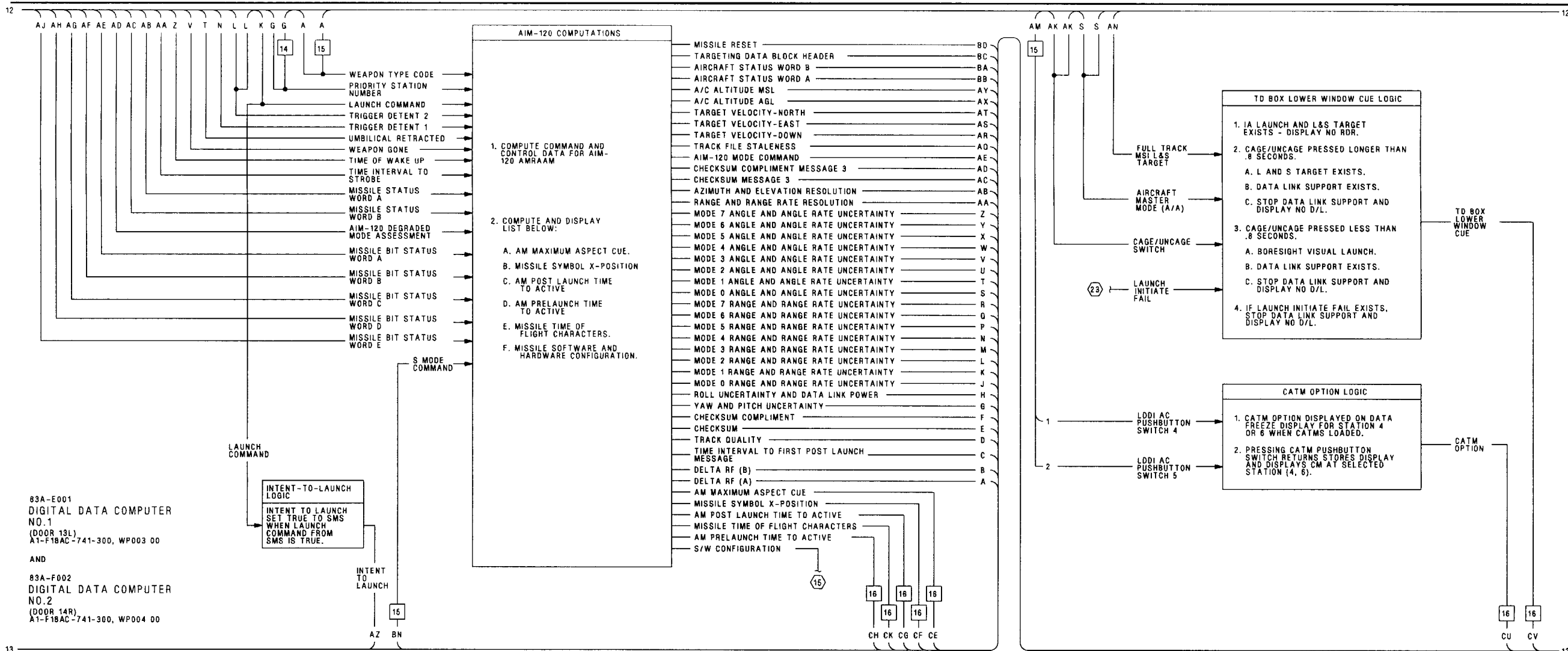
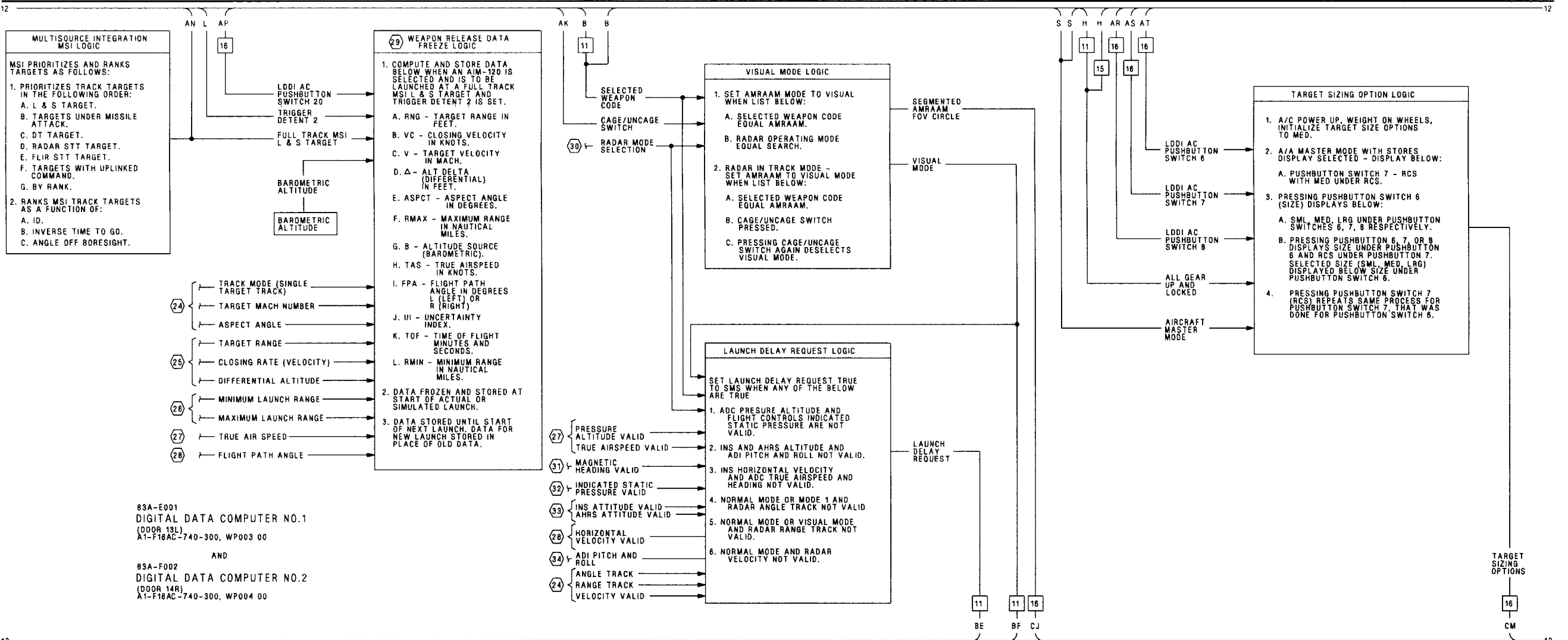


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 10)





83A-E001
DIGITAL DATA COMPUTER NO.1
(DDOR 19L)
A1-F18AC-740-300, WP003 00

AND

83A-F002
DIGITAL DATA COMPUTER NO.2
(DDOR 14R)
A1-F18AC-740-300, WP004 00

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 13)



Figure 1.



Figure 1.

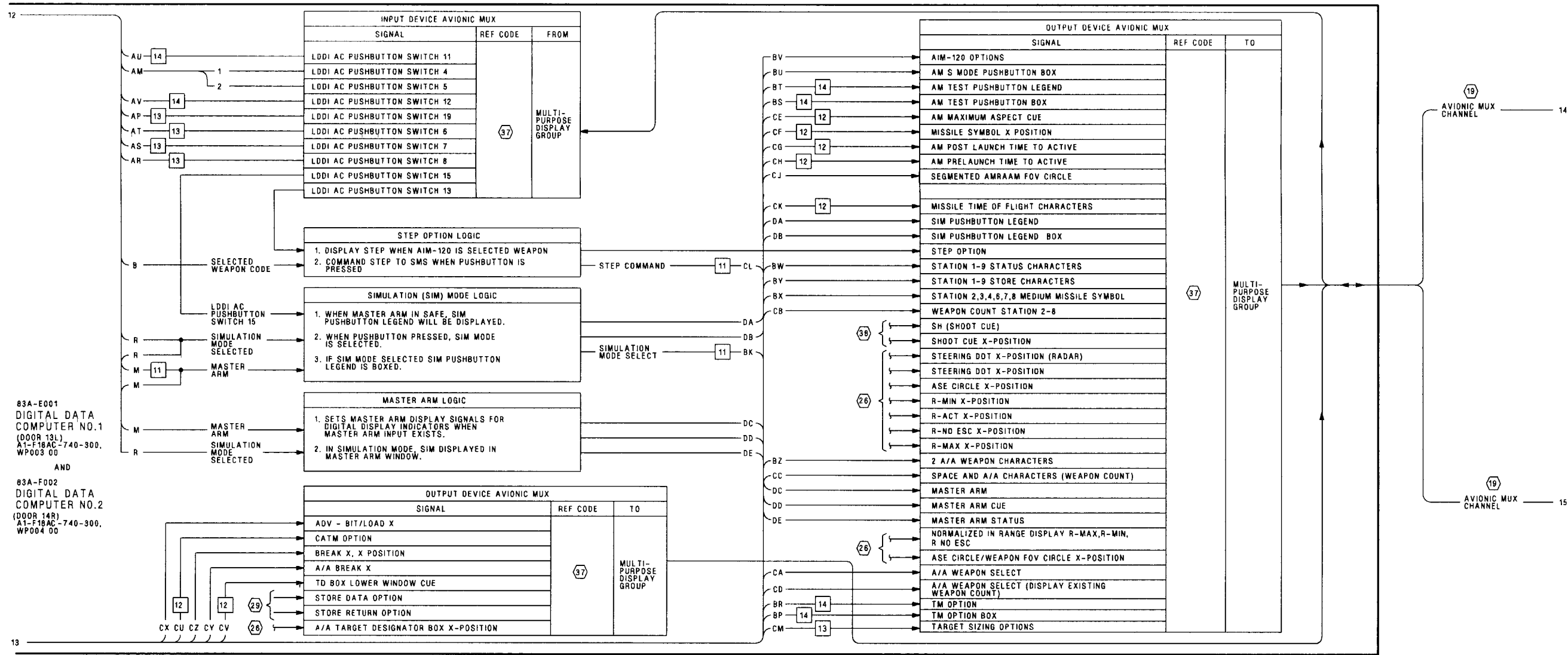


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 16)

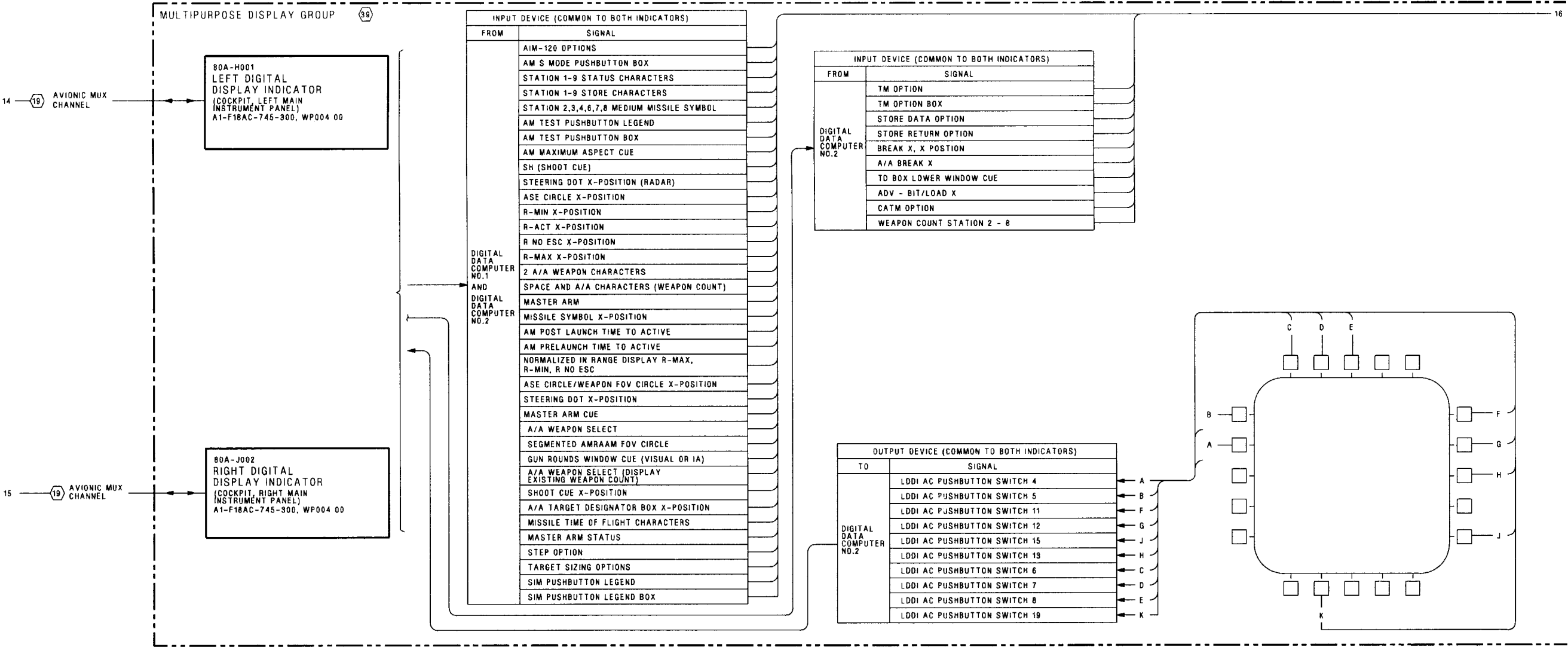
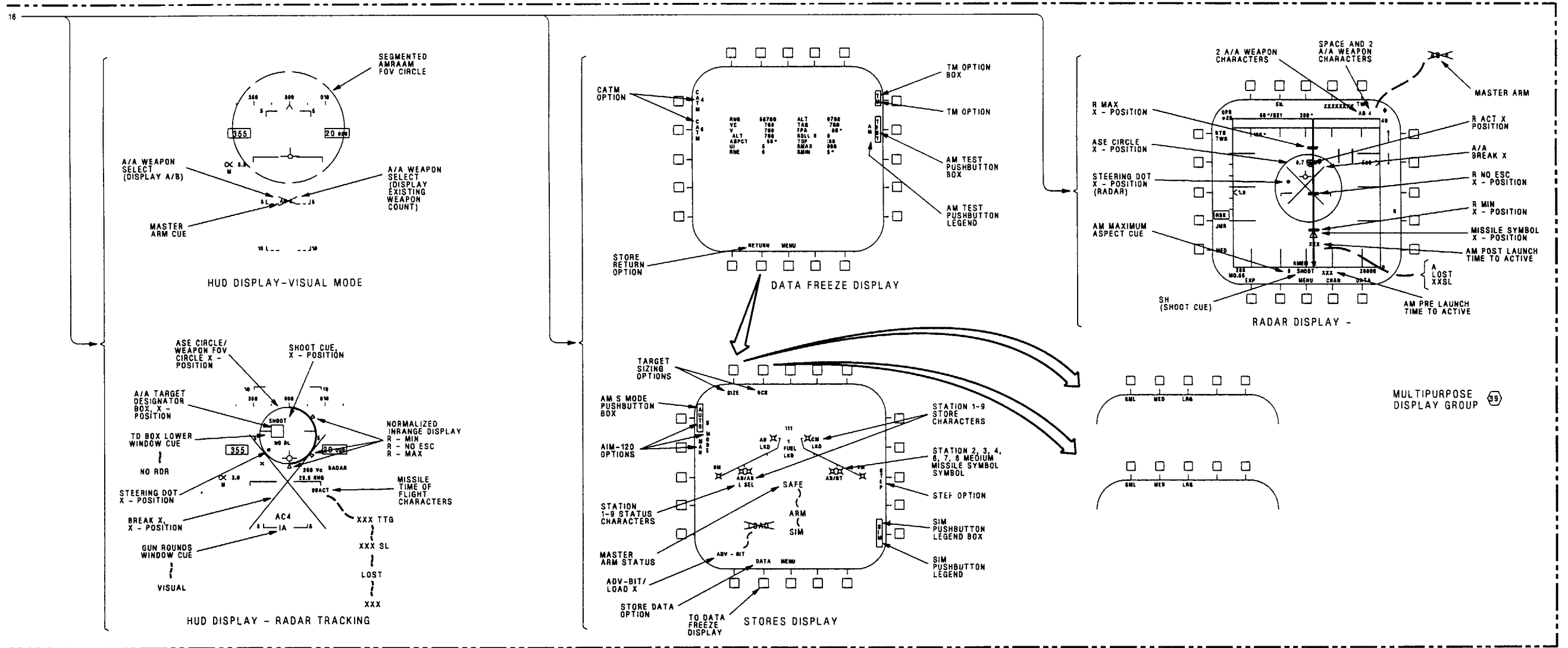


Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 17)



LEGEND			
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY. C. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	⬡16	ARMAMENT MUX BUS DATA, WP010 00.
		⬡17	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00. WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	⬡18	APPLICABLE WEAPON STATION SCHEMATIC: WEAPON STATION 2, 3, 7, 8 AIM .120 AMRAAM SCHEMATIC, WP040 00. WEAPON STATION 4, 6 AIM-120 AMRAAM SCHEMATIC, WP041 00.
⬡4	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	⬡19	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
⬡5	AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00.	⬡20	TRANSMITTER DRIVE SCHEMATIC, A1-F18AC-742-500, WP009 00.
⬡6	GUN SYSTEM SCHEMATIC, A1-F18AC-750-500, WP004 00.	⬡21	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
⬡7	MASTER ARM SCHEMATIC, WP017 00.	⬡22	NAVIGATION CONTROL SCHEMATIC, A1-F18AC-730-500, WP009 00.
⬡8	LANDING GEAR CONTROLLED RELAY SCHEMATIC, A1-F18AC-130-500, WP006 00.	⬡23	PERIODIC BUILT-IN TEST SCHEMATIC, A1-F18AC-742-500, WP014 00.
⬡9	COCKPIT WARNING/CAUTION/ADVISORY LIGHTING SYSTEM SCHEMATIC, A1-F18AC-440-500, WP006 00.	⬡24	AIR-TO-AIR ACQUISITION AND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP035 00.
⬡10	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	⬡25	RANGE/RANGE RATE AND TARGET DIFFERENTIAL ALT DISPLAY SCHEMATIC, A1-F18AC-742-500, WP026 00.
⬡11	RADAR SYSTEM INTERCONNECT SCHEMATIC, A1-F18AC-742-500, WP005 00.	⬡26	ASE CIRCLE, STEERING DOT, R MAX AND R MIN AND BREAK X DISPLAY SCHEMATIC, A1-F18AC-742-500, WP023 00.
⬡12	CONNECTORS AND PINS REPEATED TO SIMPLIFY SIGNAL FLOW.	⬡27	AIR DATA COMPUTER SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-560-500, WP004 00.
⬡13	STORES INVENTORY SCHEMATIC, WP015 00.	⬡28	NAVIGATION VELOCITY AND POSITION KEEPING FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP018 00.
⬡14	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, TABLE 1, WP009 00.	⬡29	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
⬡15	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	⬡30	AIT TO AIR MODE SELECTION SCHEMATIC, A1-F18AC-742-500, WP018 00.
		⬡31	MAGNETIC AZIMUTH DETECTOR FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP016 00.
		⬡32	CROSS CHANNEL/MUX BUS/DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
		⬡33	NAVIGATION CONTROL SCHEMATIC, A1-F18AC-730-500, WP009 00.
		⬡34	ATTITUDE REFERENCE INDICATOR FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP015 00.
		⬡35	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
		⬡36	PERIODIC BUILT-IN TEST SCHEMATIC, A1-F18AC-742-500, WP014 00.
		⬡37	DISPLAY REF CODES ARE NOT SHOWN: 1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. 2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. 3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAYS TEST, A1-F18AC-745-200, WP004 00.
		⬡38	AIM-120 AMRAAM LOCK/SHOOT LIGHT/SHOOT CUE SCHEMATIC, WP042 00.
		⬡39	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
		⬡40	161353 AND UP; ALSO 162394 THRU 163175 BEFORE F/A-18 AFC 292.
		⬡41	162394 THRU 163175 AFTER F/A-18 AFC 292.

Figure 1.

Figure 1. AIM-120 AMRAAM Avionic Interface Schematic (Sheet 19)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 AIM-7 SPARROW

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the AIM-7 sparrow when loaded on weapon station 2, 3, 7, 8.
3. The location of the components can be seen in WP008 00.

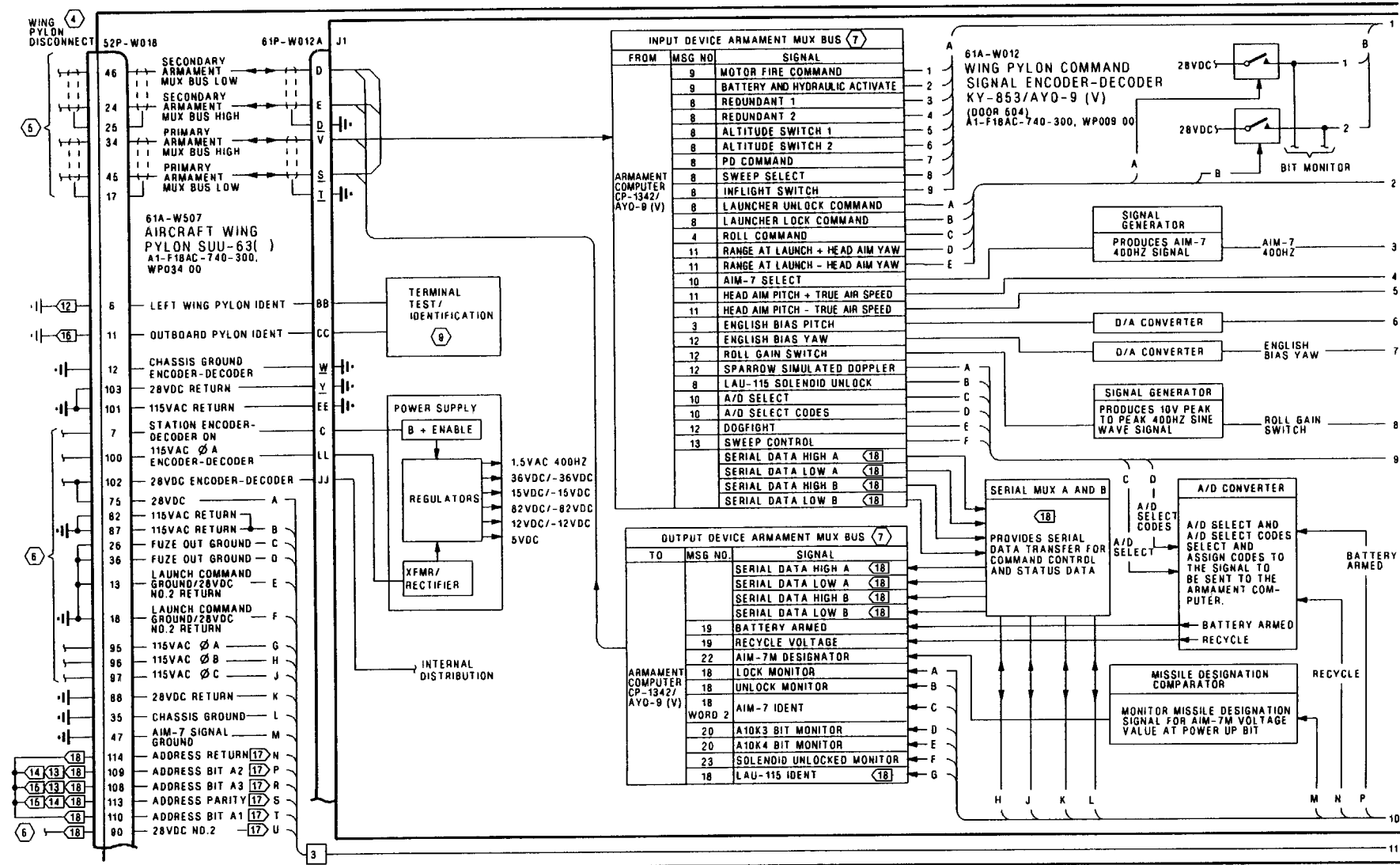


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (Sheet 1)

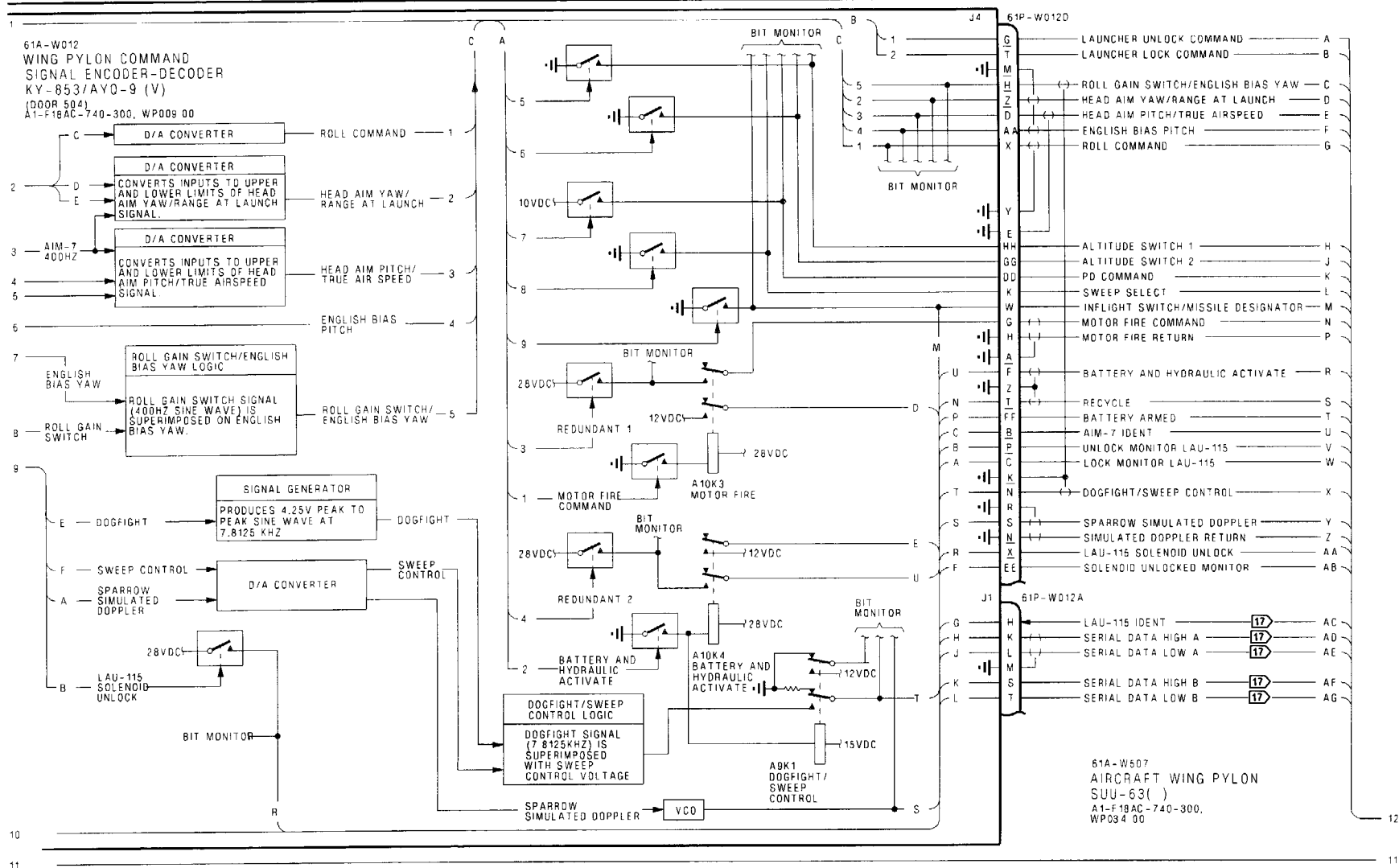


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (Sheet 2)

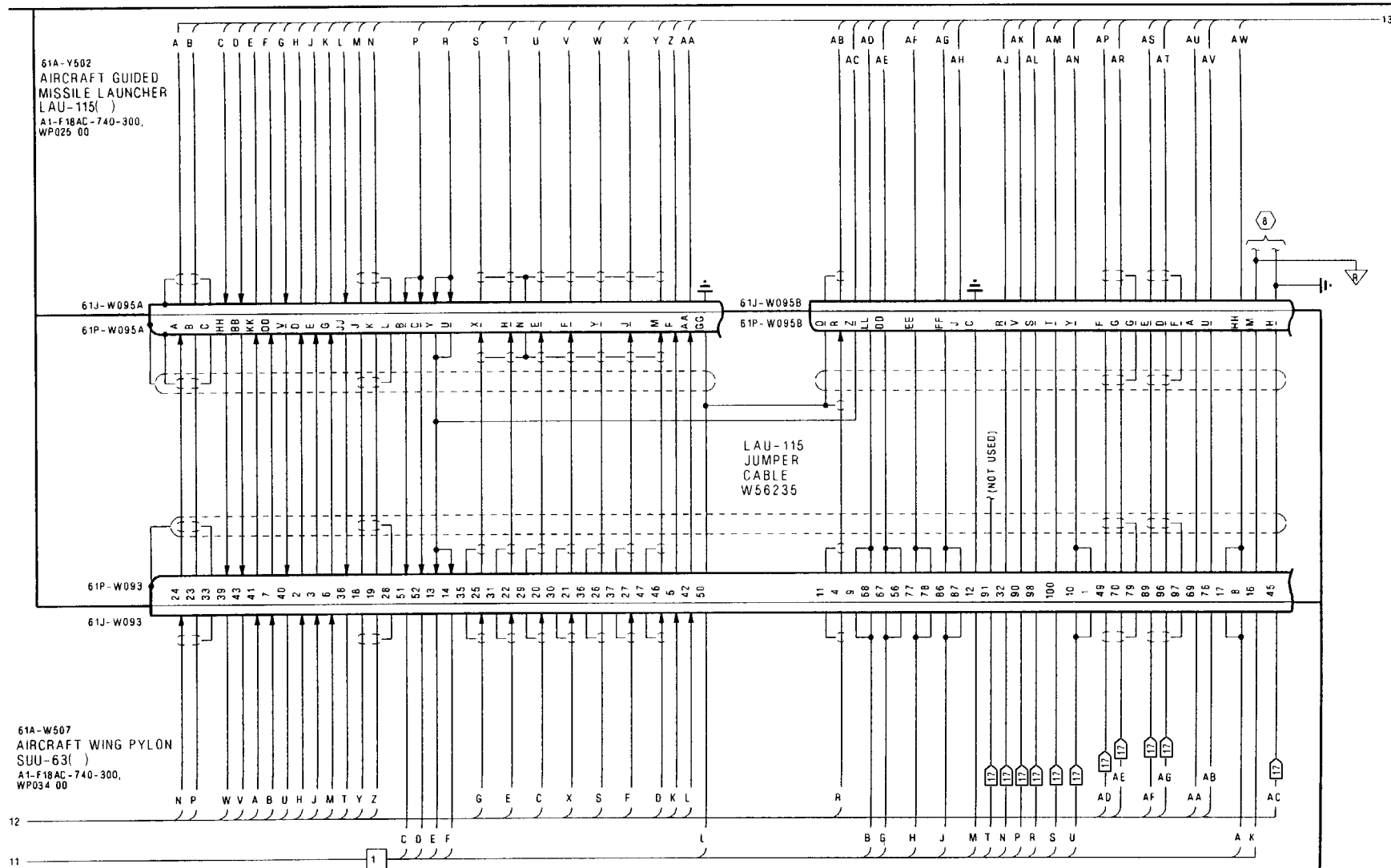


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (Sheet 3)

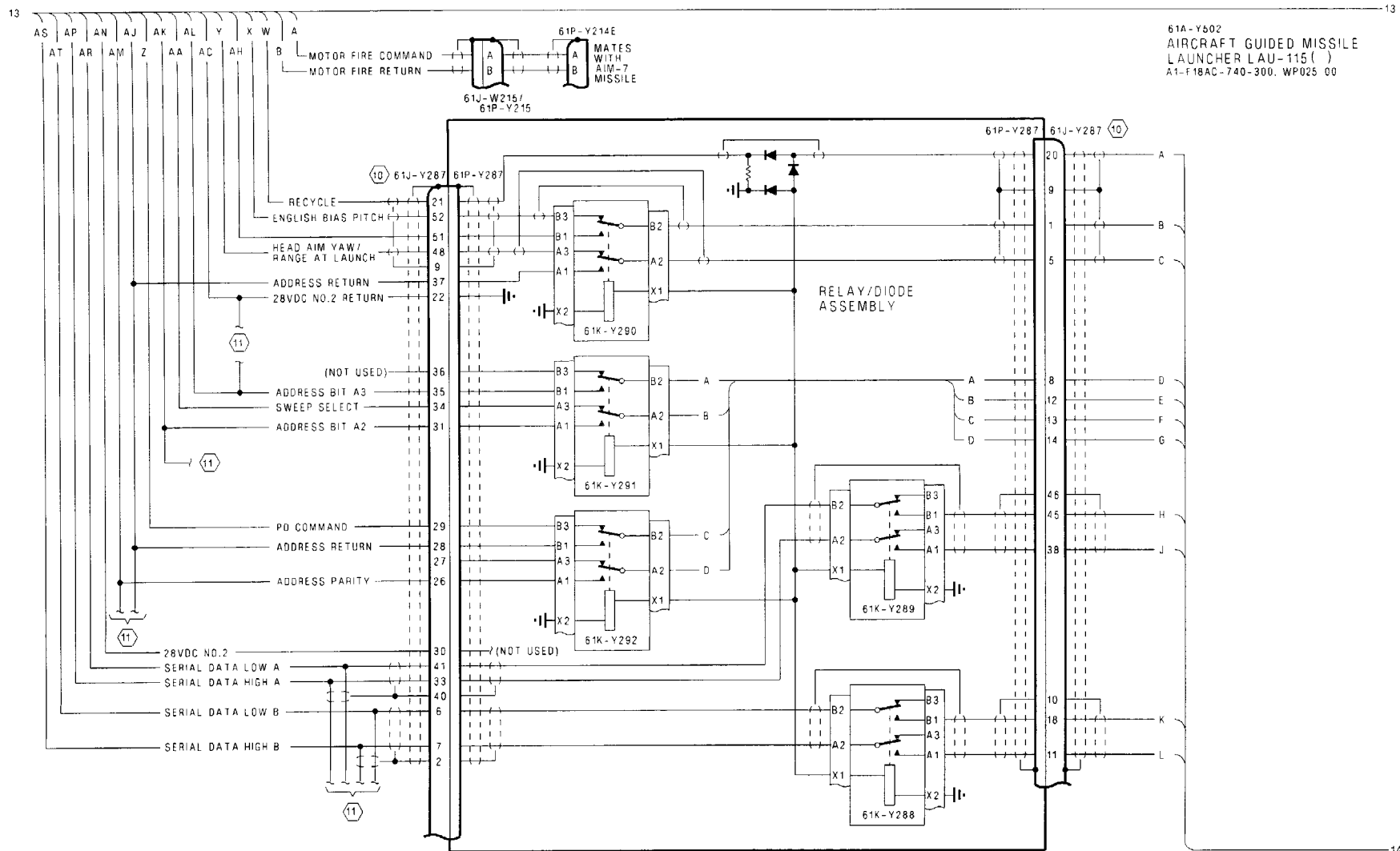


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (Sheet 4)

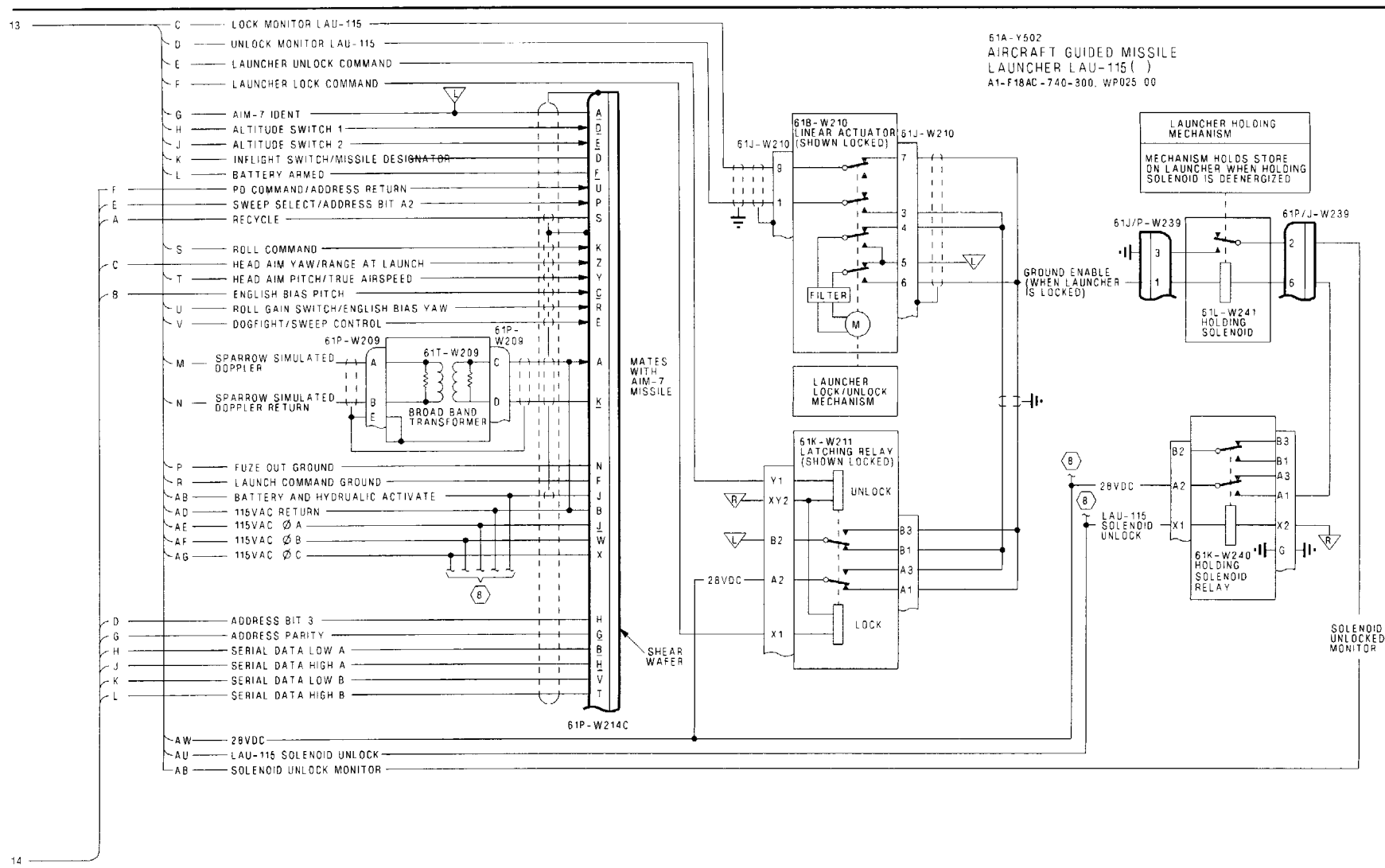


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (Sheet 5)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER S INDICATES LOWER CASE PIN LETTERS.
- ④ PYLON DISCONNECT CONNECTOR AND DOOR LOCATIONS:
 STATION 2 - 52J-U062 (DOOR 61L)
 STATION 3 - 52J-U063 (DOOR 60L)
 STATION 7 - 52J-V067 (DOOR 60R)
 STATION 8 - 52J-V068 (DOOR 61R)
- ⑤ AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00.
- ⑥ SEE APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:
 WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
 WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
 WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
 WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
- ⑦ ARMAMENT MUX BUS DATA, WP010 00.
- ⑧ WEAPON STATION 2, 8 AIM-9 SIDEWINDER SCHEMATIC, WP047 00.
- ⑨ BUILT-IN TEST SCHEMATIC, WP024 00.
- ⑩ CONNECTOR AND PINS ARE DUPLICATED TO SIMPLIFY SIGNAL FLOW.
- ⑪ WEAPON STATION 2, 3, 7, 8 AIM-120 AMRAAM SCHEMATIC, WP040 00.
- 12 WEAPON STATION 2 ,3.
- 13 WEAPON STATION 7.
- 14 WEAPON STATION 3.
- 15 WEAPON STATION 8.
- 16 WEAPON STATION 2, 8.
- 17 AIRCRAFT WING PYLON SUU 63A/A.
- 18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Figure 1. Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (Sheet 6)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 4, 6 AIM-7 SPARROW

STORES MANAGEMENT SYSTEM

Title	WP Number
Weapon Station 4, 6 AIM-7 Sparrow Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	044 01
Weapon Station 4, 6 AIM-7 Sparrow Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	044 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 4, 6 AIM-7 SPARROW

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions For Additional Weapons (ECP MDA- F/A-18-00090)	1 Dec 89	ECP Coverage Only

- 1. INTRODUCTION.**
- The schematic in this work package shows the system functions for the AIM-7 Sparrow when loaded on weapon station 4 or 6.
- The location of the components on this schematic can be seen in WP008 00.

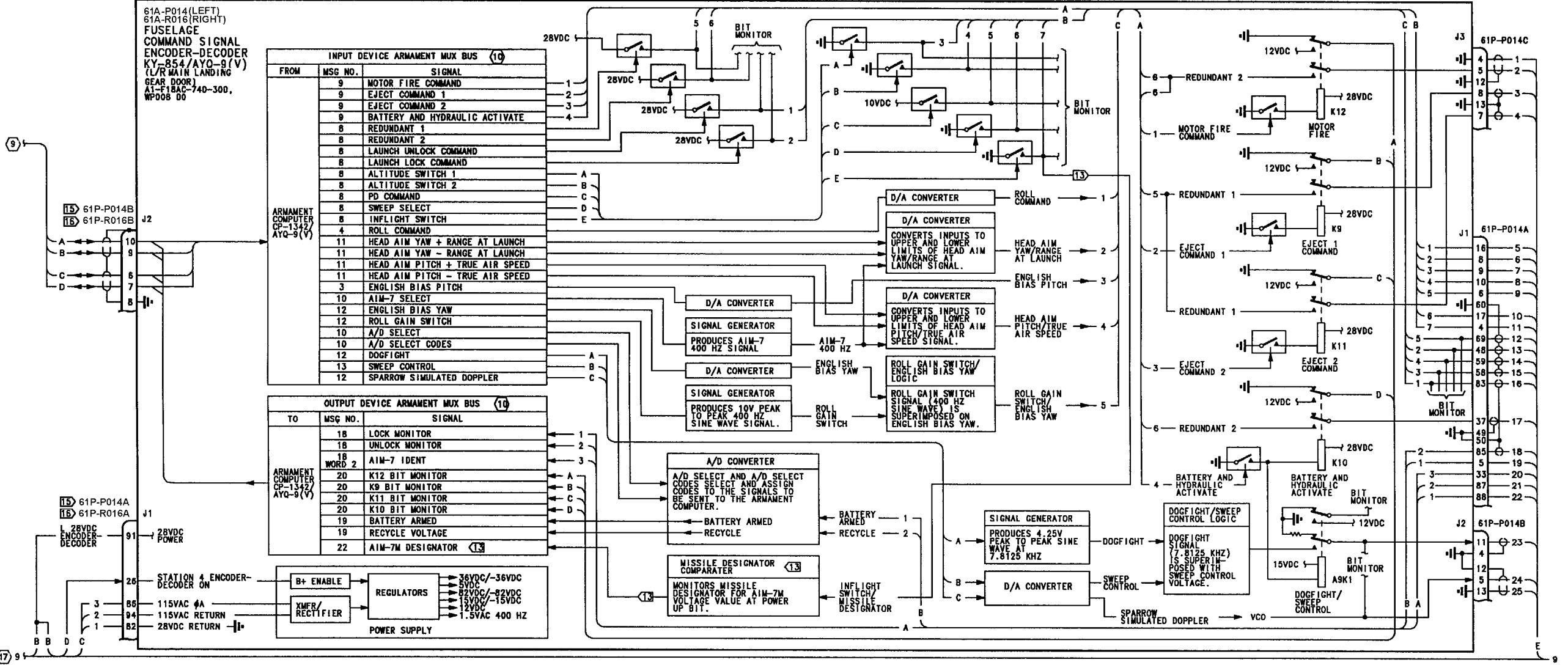


Figure 1.

Figure 1. Weapon Station 4, 6 AIM-7 Sparrow Schematic (Sheet 1)

Figure 1.



Figure 1. Weapon Station 4, 6 AIM-7 Sparrow Schematic (Sheet 2)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING. IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RXI SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - E. WHEN ELECTRICAL POWER IS OFF 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes), MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.
 4. ABBREVIATIONS: SEE WP002 01.
-
5. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
 6. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.
 7. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 8. WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00.
 9. AIM-7 AVIONIC INTERFACE SCHEMATIC, WP045 00.
 10. ARMAMENT MUX BUS DATA, WP010 00.
 11. F/A-18A.
 12. F/A-18B.
 13. 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.
 14. 162445 AND UP.
 15. WEAPON STATION 4.
 16. WEAPON STATION 6.
 17. REFER TO APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:
 - WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00.
 - WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00.

Figure 1. Weapon Station 4, 6 AIM-7 Sparrow Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 4, 6 AIM-7 SPARROW

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the AIM-7 Sparrow when loaded on weapon station 4 or 6.
3. The location of the components on this schematic can be seen in WP008 00.

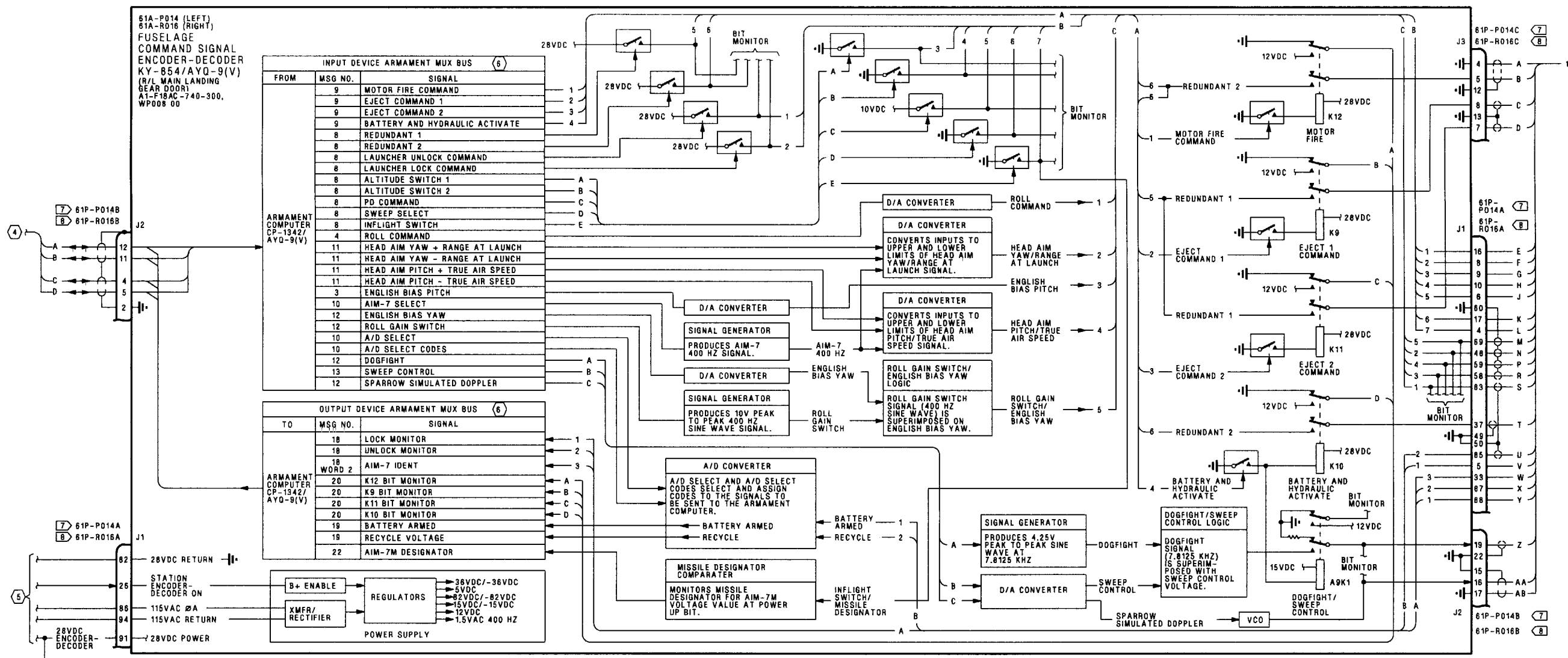


Figure 1.

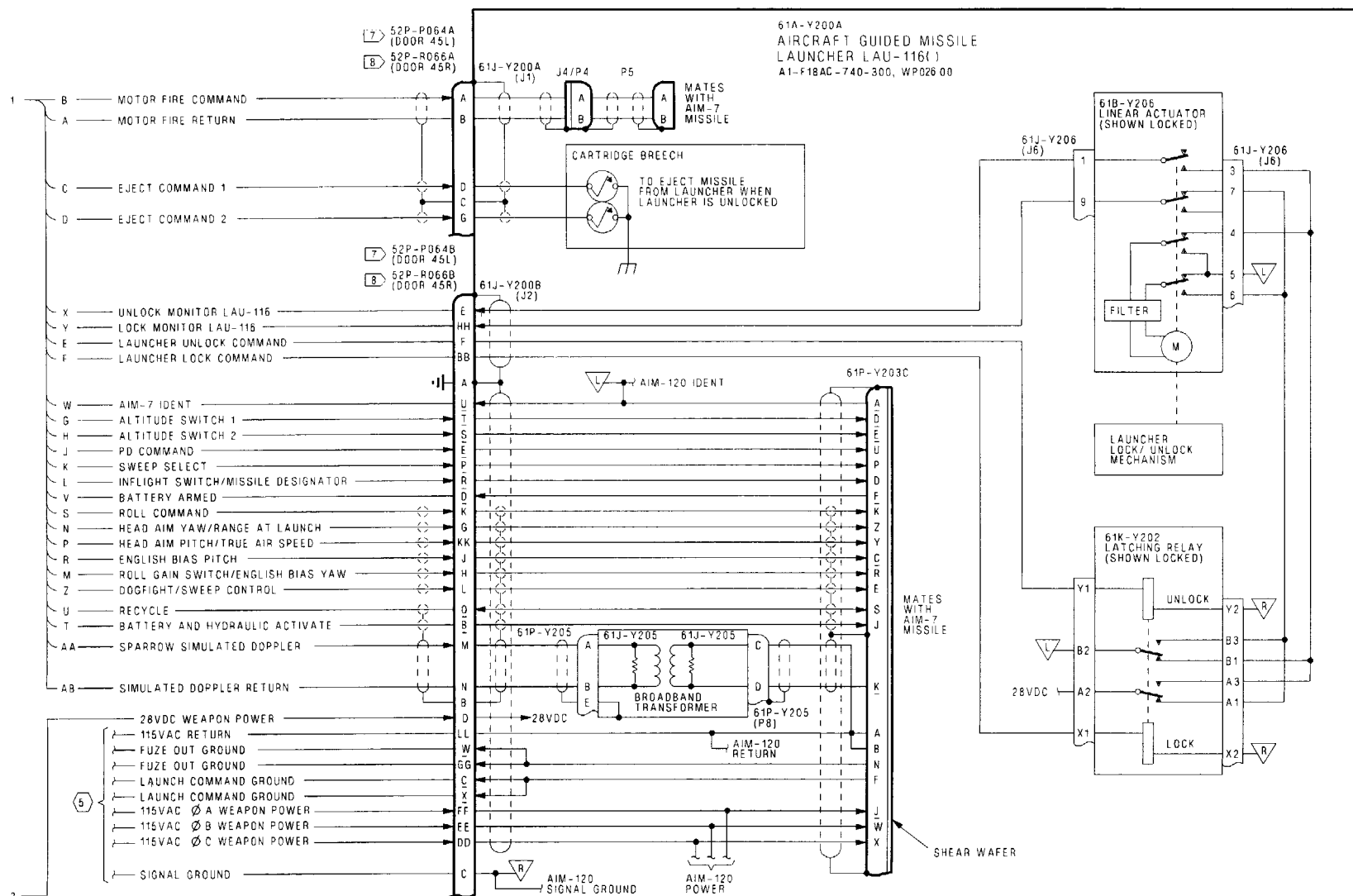


Figure 1.

Figure 1. Weapon Station 4, 6 AIM-7 Sparrow Schematic (Sheet 2)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.
4. AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, WP045 00.
5. REFER TO APPLICABLE WEAPON STATION POWER SCHEMATIC:
WEAPON STATION 4 POWER CONTROL SCHEMATIC, WP029 00.
WEAPON STATION 6 POWER CONTROL SCHEMATIC, WP031 00.
6. ARMAMENT MUX BUS DATA, WP010 00.
7. WEAPON STATION 4.
8. WEAPON STATION 6.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AIM-7 SPARROW AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
- Sparrow. This schematic supports weapon station
2, 3, 7, 8 and 4, 6 AIM-7 Sparrow schematics.
2. The schematic in this work package shows
aircraft related system functions for the AIM-7
3. The location of the components can be seen in
WP008 00.

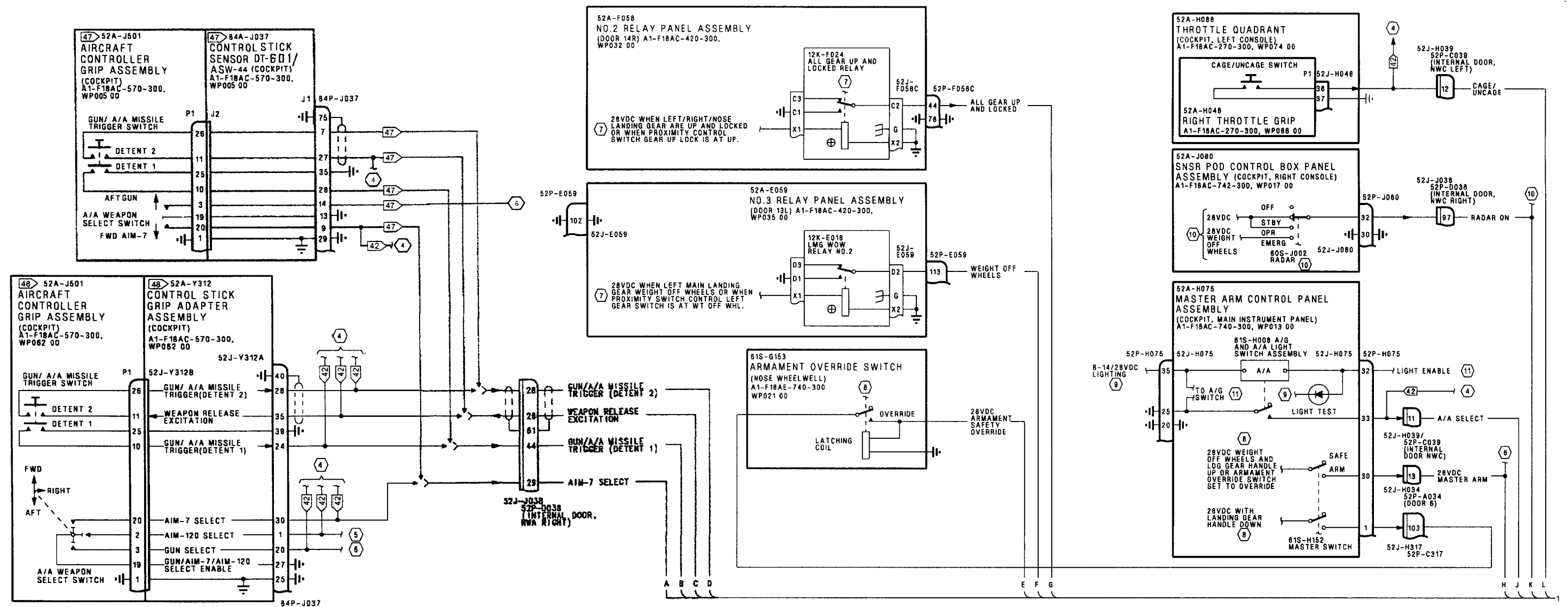


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 1)

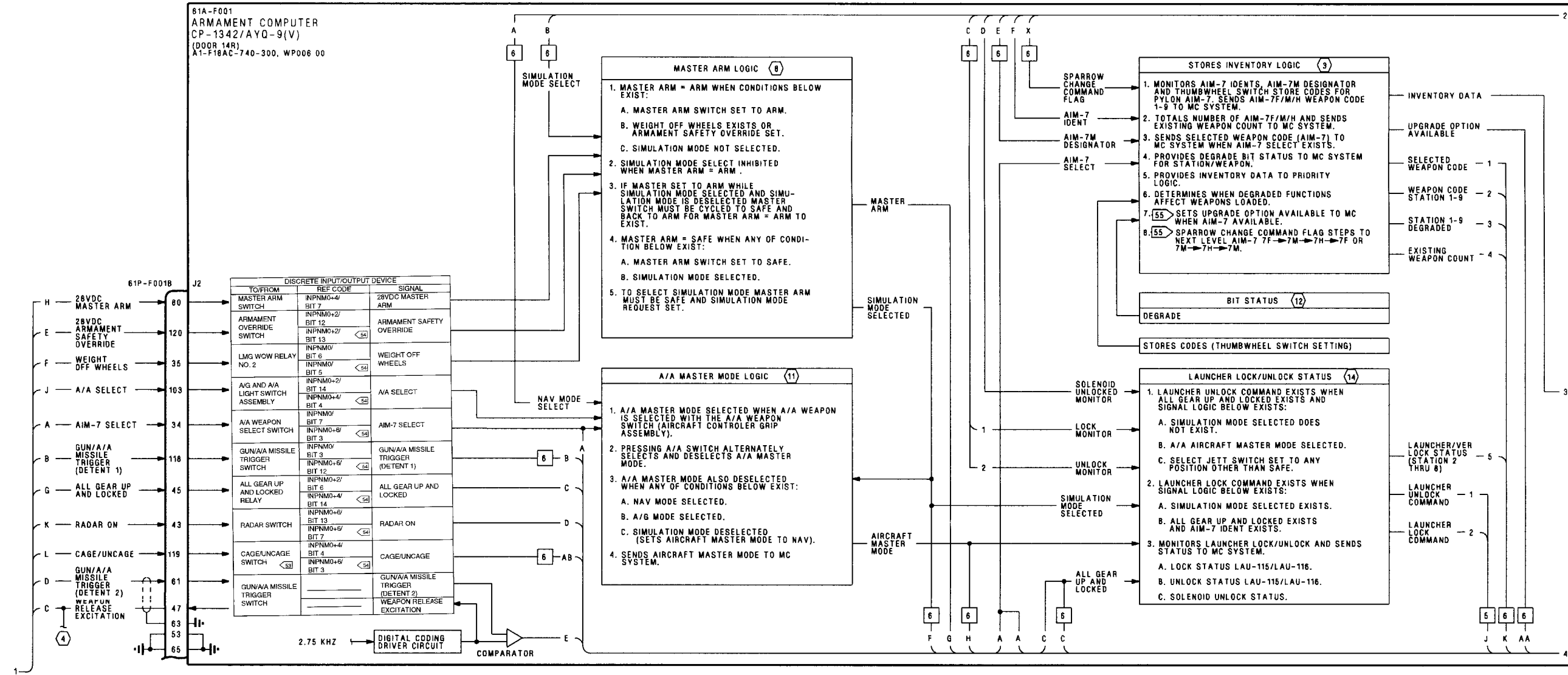


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 2)

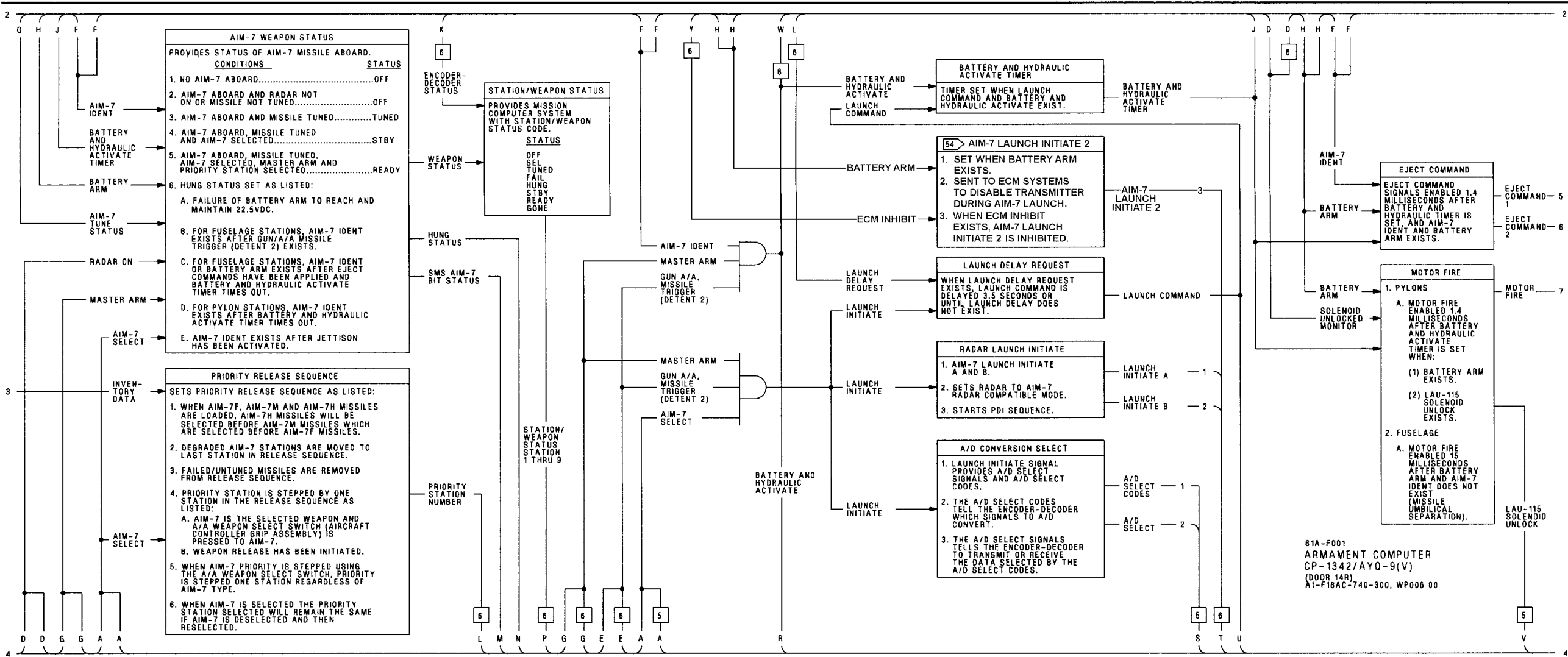


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 3)

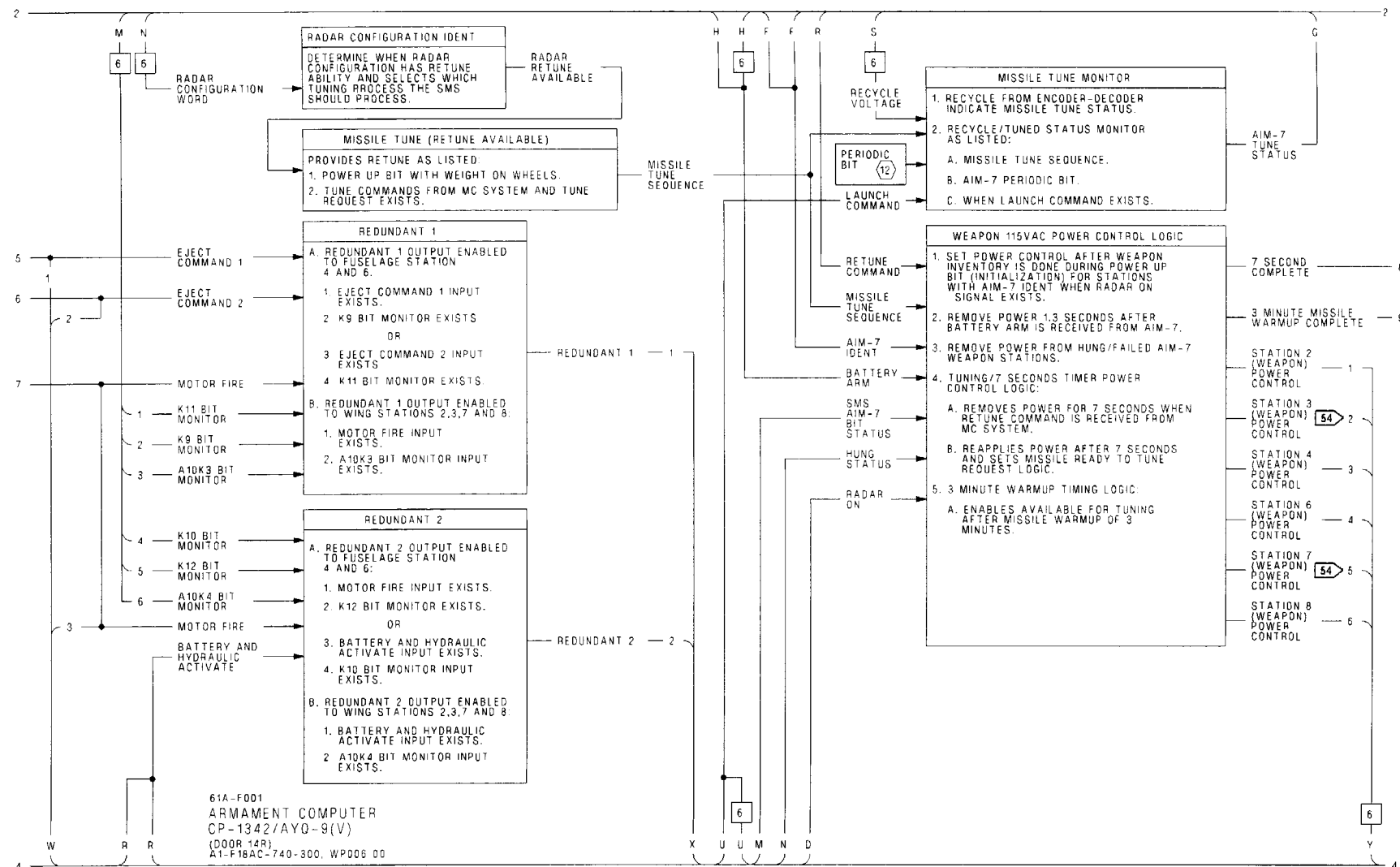


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 4)

Figure 1.

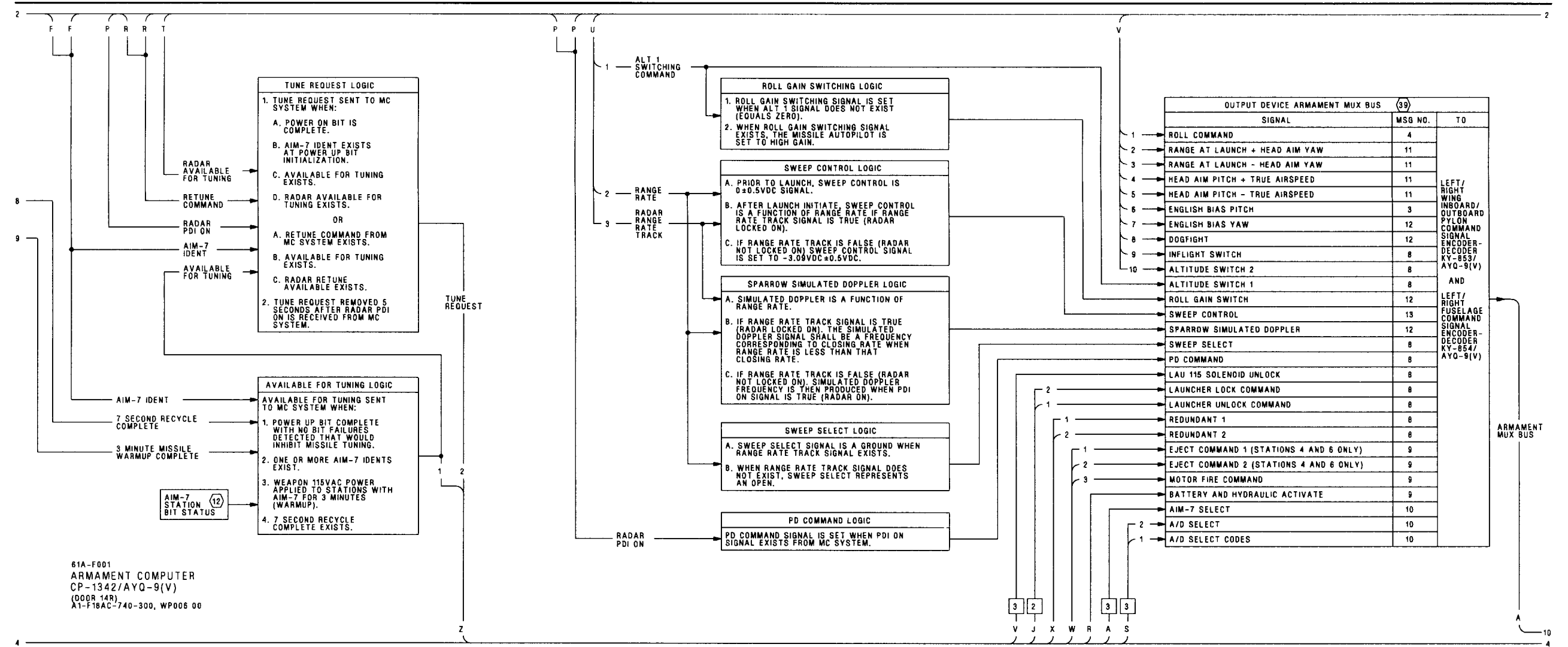


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 5)

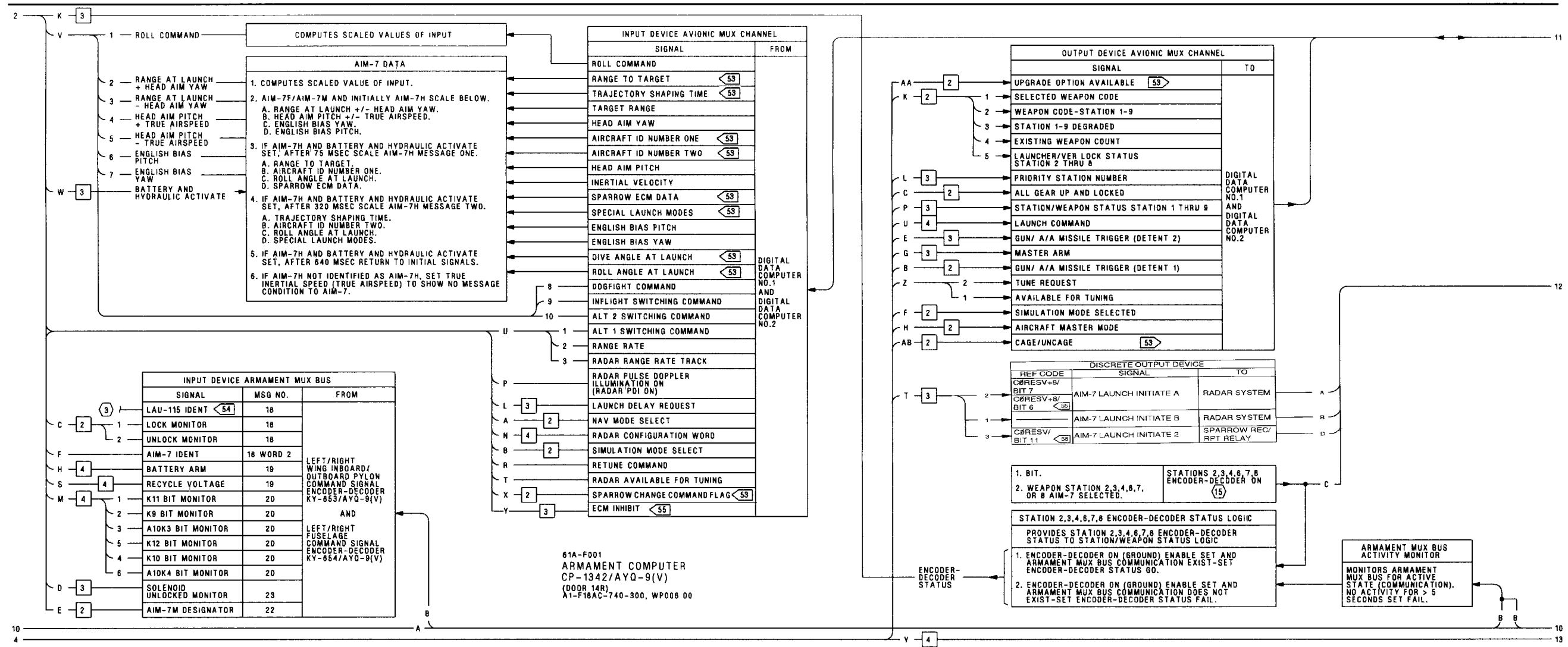


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 6)



Figure 1.

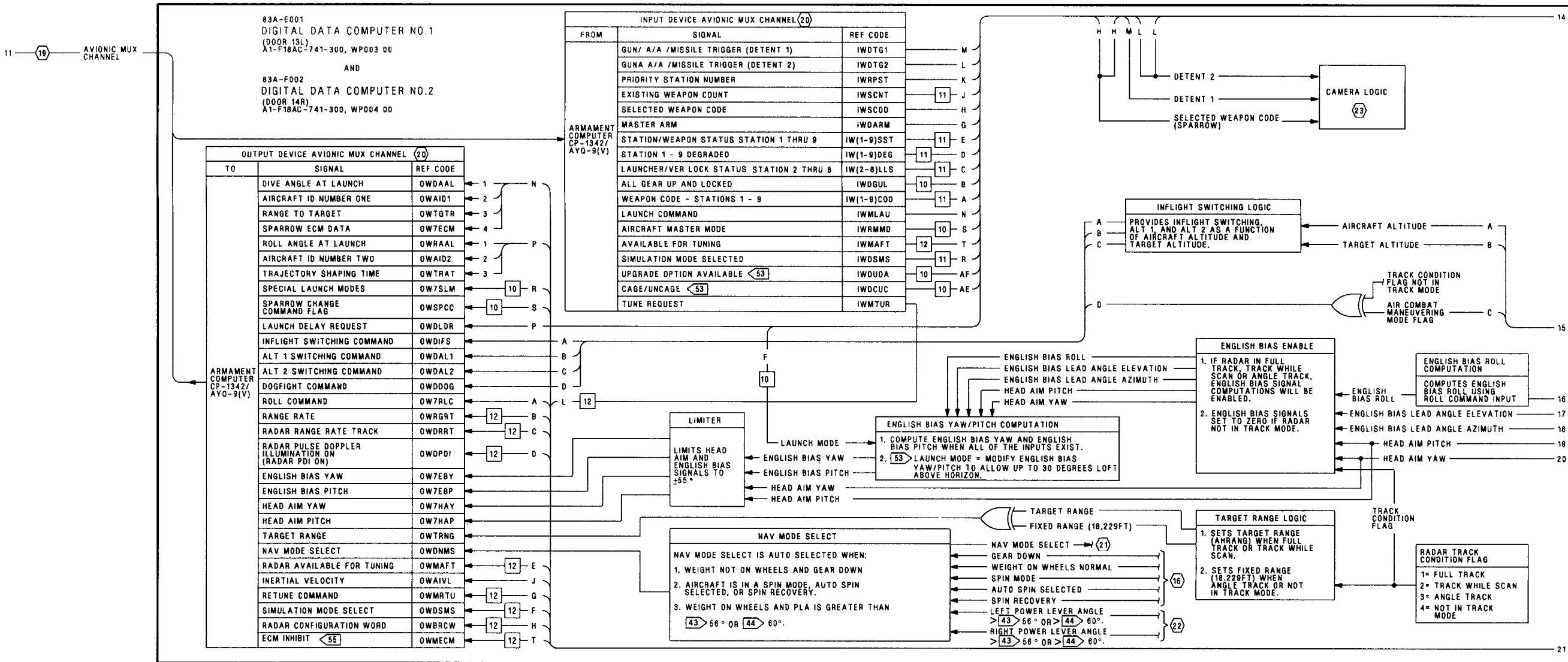


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 8)

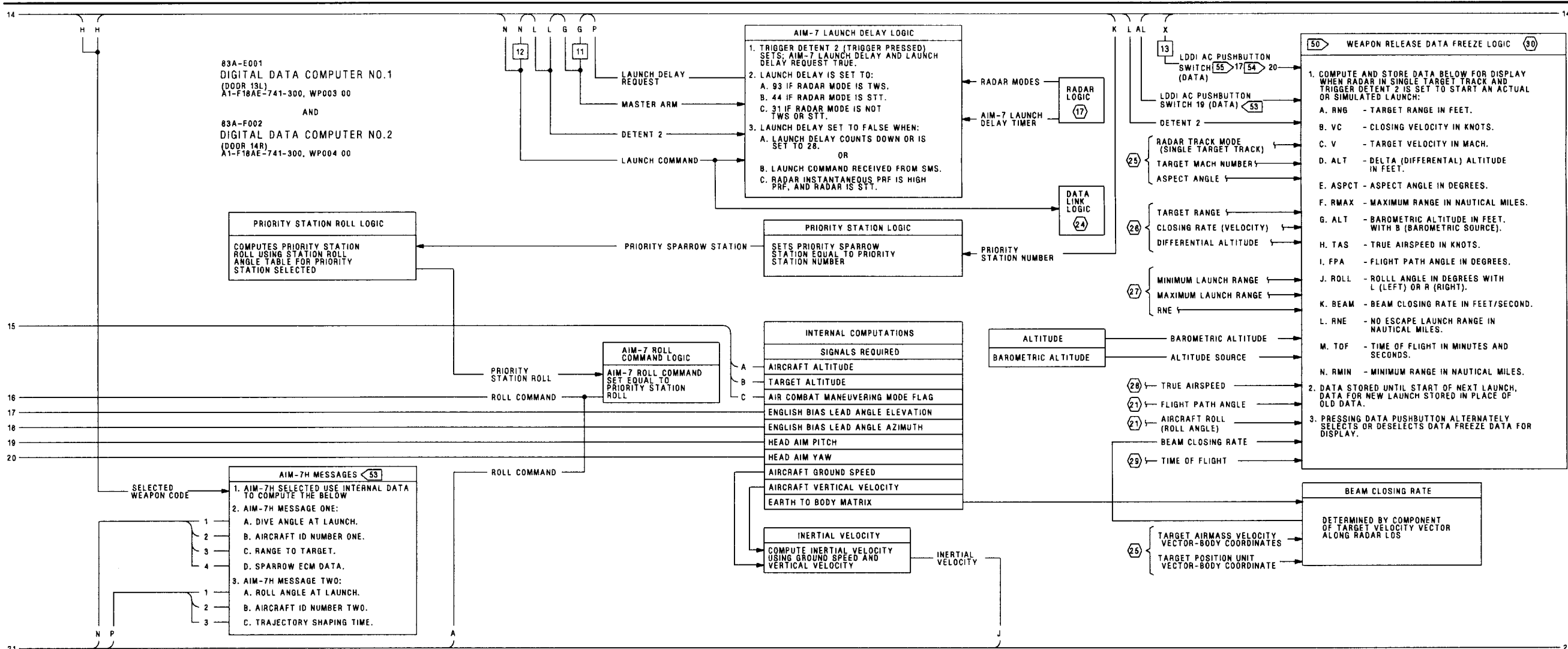


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 9)

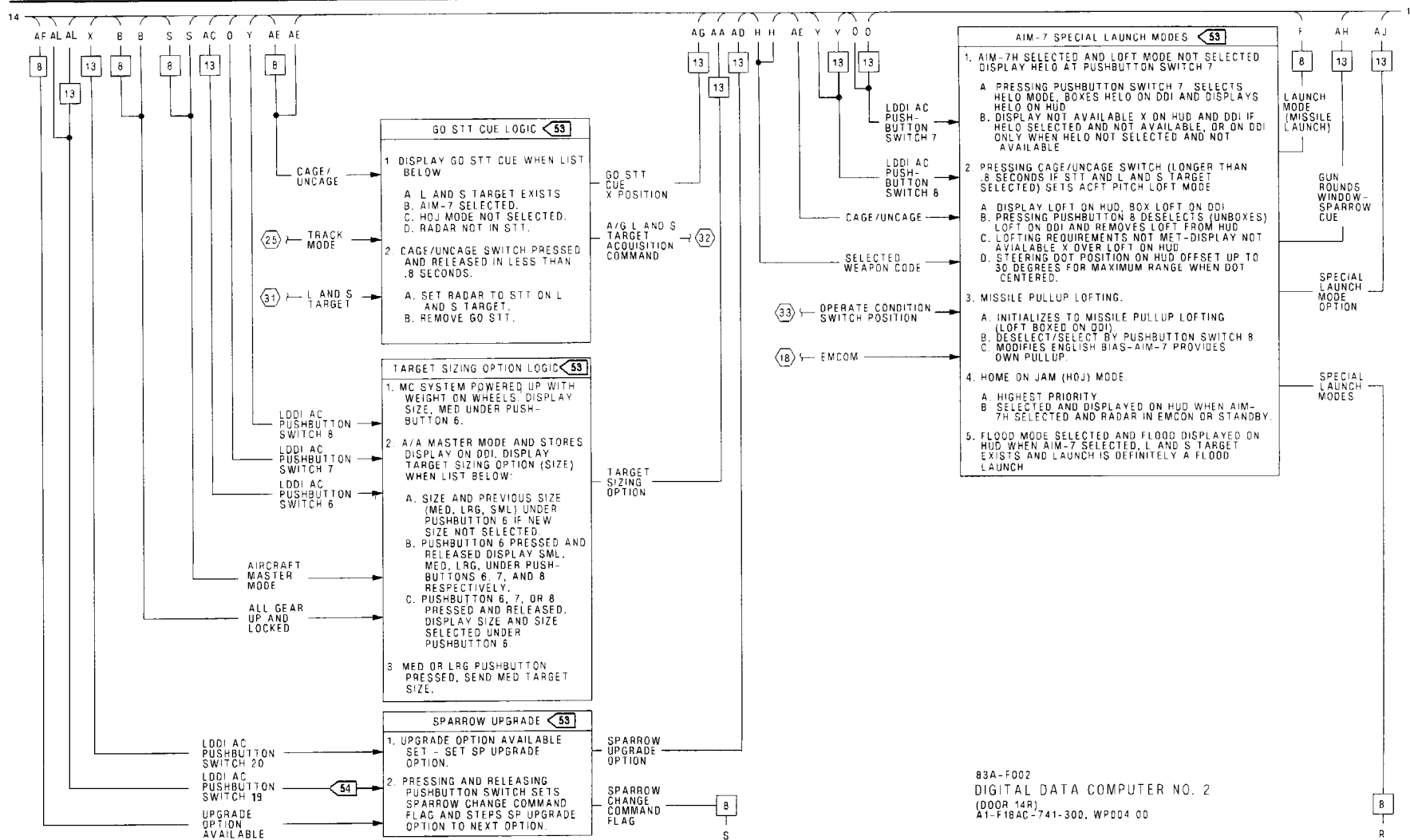


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 10)

Figure 1.

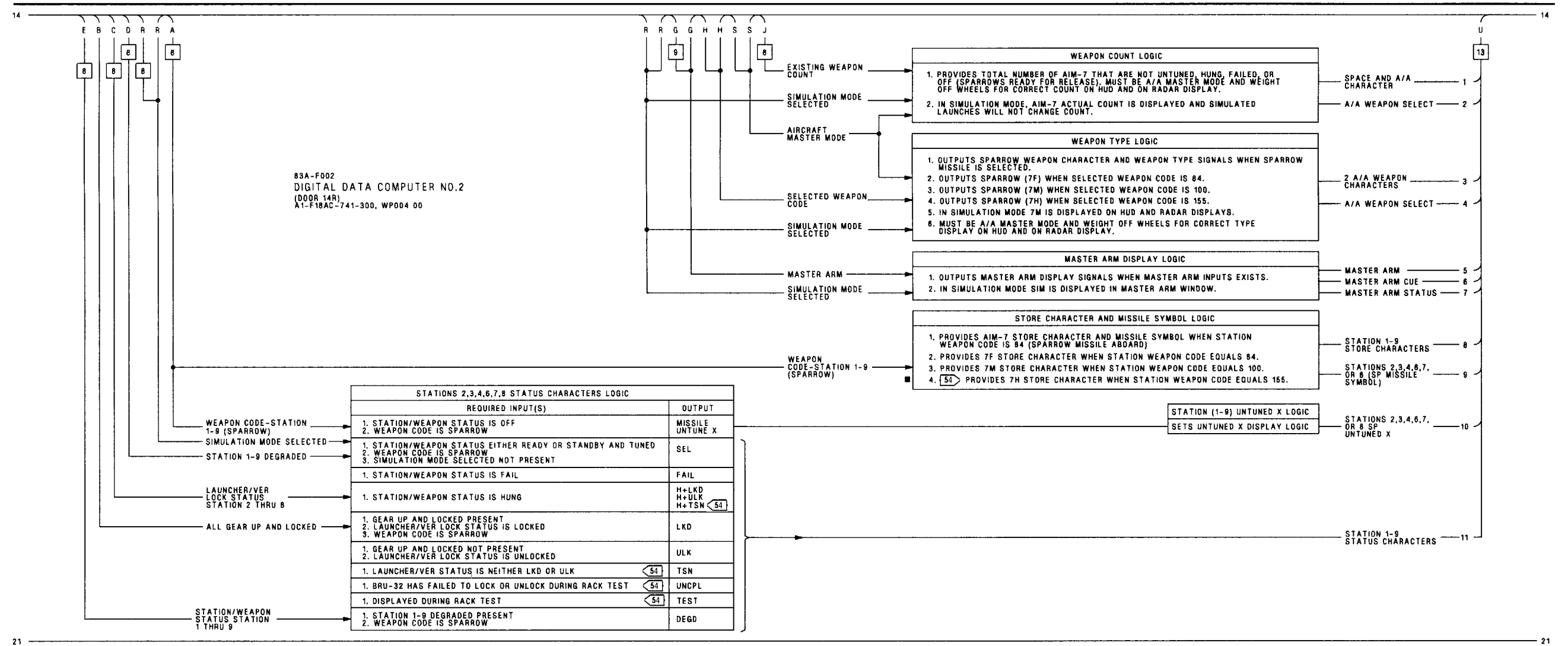


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 11)

Figure 1.



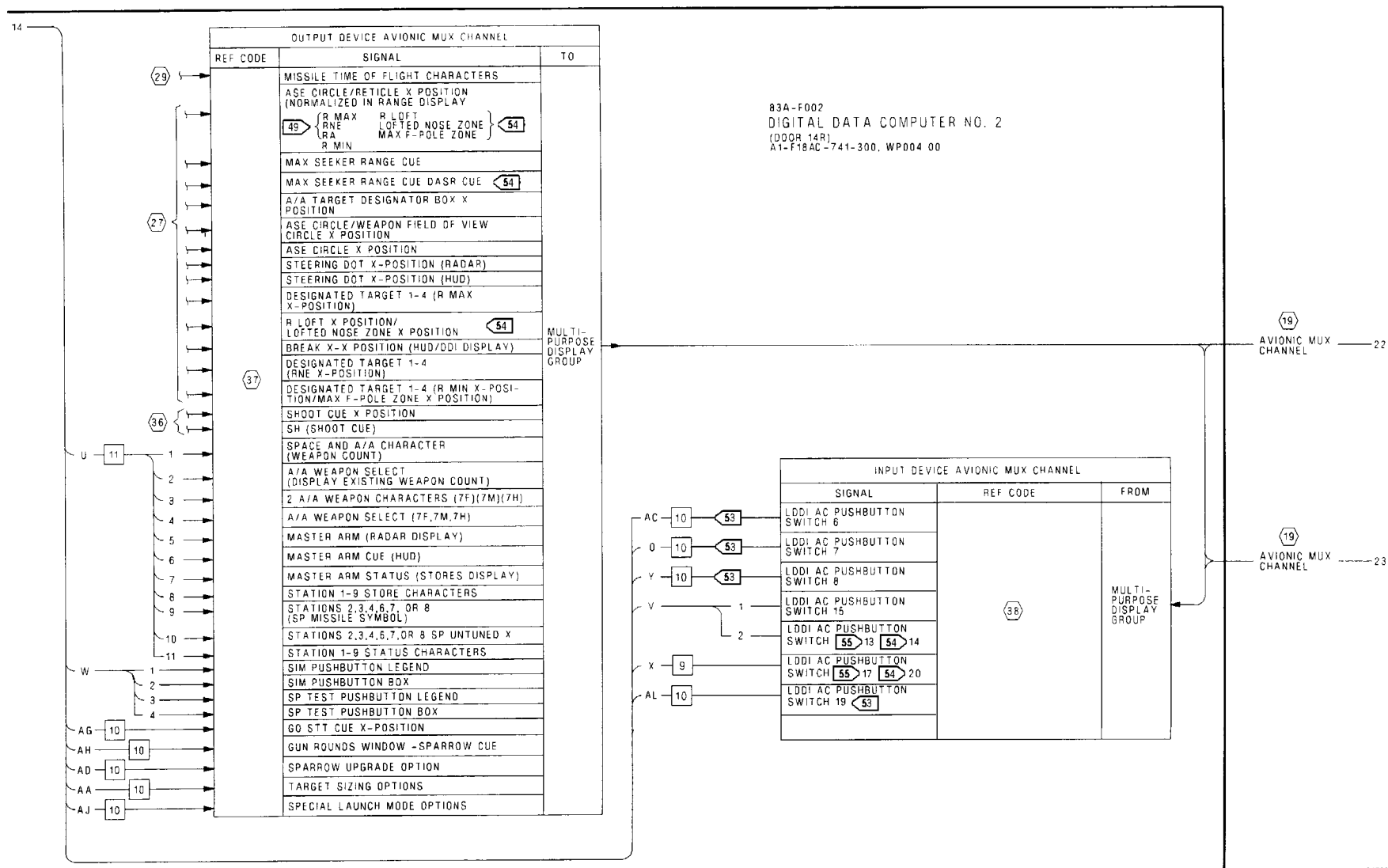


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 13)

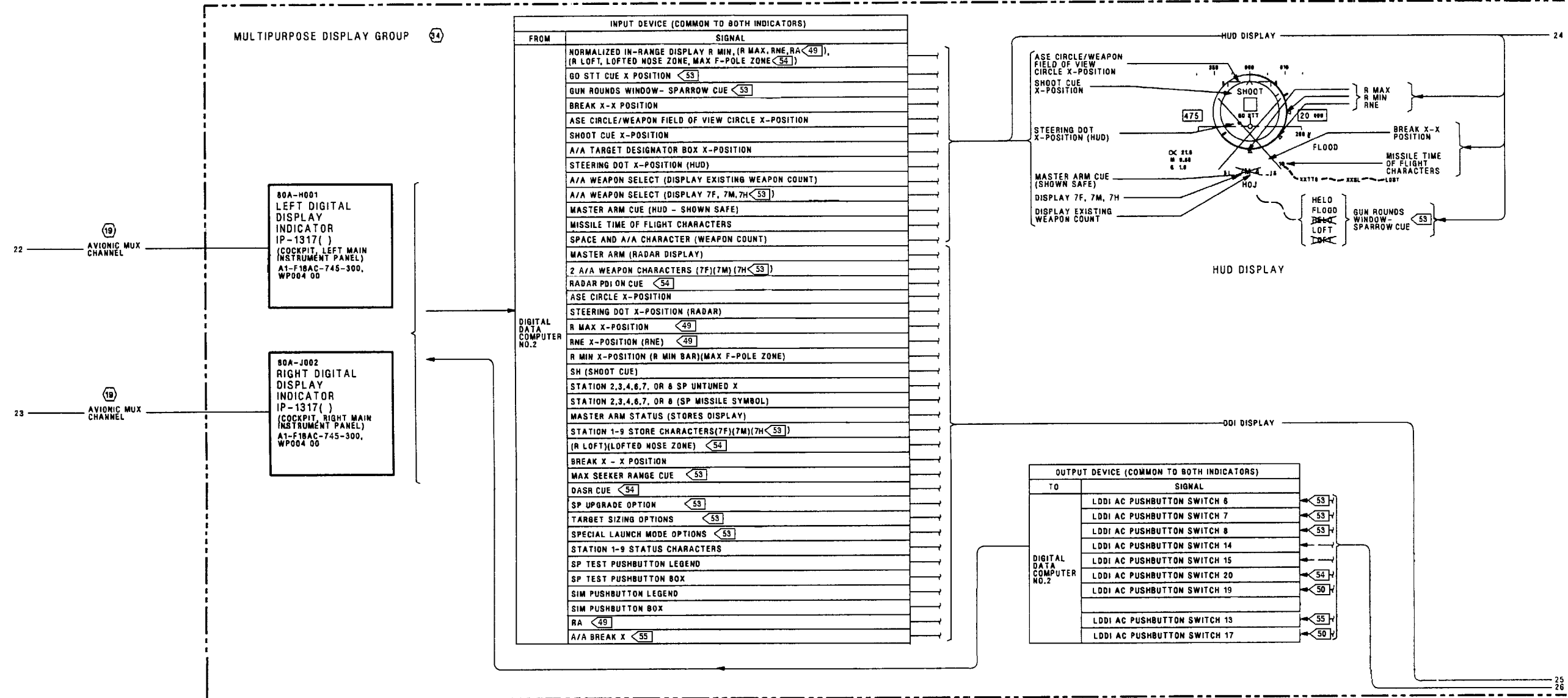


Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 14)

04500114
Figure 1.



Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 15)

LEGEND			
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:		
	A. ALL AIRCRAFT WIRE NUMBERS, SPICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	20	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING. IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	21	NAVIGATION ATTITUDE AND HEADING FUNCTIONAL, A1-F18AC-730-500, WP017 00.
	C. WHEN TESTING CONTINUITY, TEST FOR:	22	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
	(1) SHORTS TO GROUND.	23	VIDEO RECORDING SYSTEM SCHEMATIC, A1-F18AC-770-500, WP006 00 - F/A-18A OR WP007 00 - F/A-18B.
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	24	DATA LINK SYSTEM VECTOR MODE FUNCTIONAL SCHEMATIC, A1-F18AC-630-510/(C), WP012 00.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	25	AIR TO AIR ACQUISITION AND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP035 00.
	(4) SHIELD CONTINUITY.	26	RANGE/RANGE RATE AND TARGET DIFFERENTIAL ALT DISPLAY SCHEMATIC, A1-F18AC-742-500, WP026 00.
3	STORES INVENTORY SCHEMATIC, WP015 00.	27	ASE CIRCLE, STEERING DOT. R MAX AND R MIN, AND BREAK X DISPLAY SCHEMATIC, A1-F18AC-742-500, WP023 00.
4	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	28	AIR DATA COMPUTER SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-560-500, WP004 00.
5	AIM-120 AMRAAM AVIONIC INTERFACE SCHEMATIC, WP042 00.	29	TIME TO GO/LOST AND MISSILE TIME OF FLIGHT DISPLAY SCHEMATIC, A1-F18AC-742-500, WP027 00.
6	GUN SYSTEM SCHEMATIC, A1-F18AC-750-500, WP004 00.	30	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
7	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130, WP006 00.	31	TWS TARGETS AND LAUNCH RANGE STEERING TARGET DISPLAY SCHEMATIC, A1-F18AC-742-500, WP021 00.
8	MASTER ARM SCHEMATIC, WP017 00.	32	AIR TO AIR MODE SELECTION SCHEMATIC, A1-F18AC-742-500, WP018 00.
9	COCKPIT WARNING/CAUTION/ADVISORY LIGHTING SYSTEM SCHEMATIC, A1-F18AC-440-500, WP006 00.	33	OPERATING STATUE SELECT AND DISPLAY SCHEMATIC, A1-F18AC-742-500, WP008 00.
10	RADAR SYSTEM INTERCONNECT SCHEMATIC, A1-F18AC-742-500, WP005 00.	34	INTEGRATION SCHEMATIC, A1-F18AC-760-500, WP013 00.
11	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	35	COUNTERMEASURES SET AN/ALQ-126 FUNCTIONAL SCHEMATIC, A1-F18AC-760-500, WP008 00.
12	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	36	AIM-7 SPARROW LOCK/SHOT LIGHT/SHOOT CUE SCHEMATIC, WP021 00.
13	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.	37	DISPLAY REF CODES ARE NOT SHOWN:
14	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.		1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR.
15	APPLICABLE WEAPON STATION AIM-7 SPARROW SCHEMATIC: WEAPON STATION 2, 3, 7, 8 AIM-7 SPARROW SCHEMATIC, WP043 00. WEAPON STATION 4, 6 AIM-7 SPARROW SCHEMATIC, WP044 00.		2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00.
16	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.		3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAYS TEST, A1-F18AC-745-200, WP004 00.
17	FLOOD SELECTION AND DISPLAY SCHEMATIC, A1-F18AC-742-500, WP025 00.		
18	RF POWER DISTRIBUTION SCHEMATIC, A1-F18AC-742-500, WP010 00.		
19	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.		
		38	REF. CODES NOT SHOWN. IF INDICATOR ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING DISPLAY TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		39	ARMAMENT MUX BUS DATA, WP011 00.
		40	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
		41	F/A-18A.
		42	F/A-18 B.
		43	161353 THRU 161528.
		44	161702 AND UP.
		45	161353 THRU 161987 BEFORE F/A-18 AFC 48.
		46	162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 48.
		47	161353 THRU 161519 BEFORE F/A-18 AFC 27.
		48	161520 AND UP; ALSO 161353 THRU 161519 AFTER F/A-18 AFC 27.
		49	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).
		50	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).
		51	161353 THRU 161705, AND 161707.
		52	161706, 161708 AND UP.
		53	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 92A AND DIGITAL DATA COMPUTER CONFIG/IDENT 92A AND UP (A1-F18AC-SCM-000).
		54	162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
		55	162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.
		56	161353 THRU 163175 BEFORE F/A-18 AFC 253.
		57	162826 THRU 163175 AFTER F/A-18 AFC 253.
		58	DC POWER SYSTEM SCHEMATIC, A1-F18AC-742-500, WP00400.

Figure 1.

Figure 1. AIM-7 Sparrow Avionic Interface Schematic (Sheet 16)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 1, 9 AIM-9 SIDEWINDER

STORES MANAGEMENT SYSTEM

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the AIM-9 Sidewinder when loaded on weapon station 1 or 9.
3. The location of the components can be seen in WP008 00.

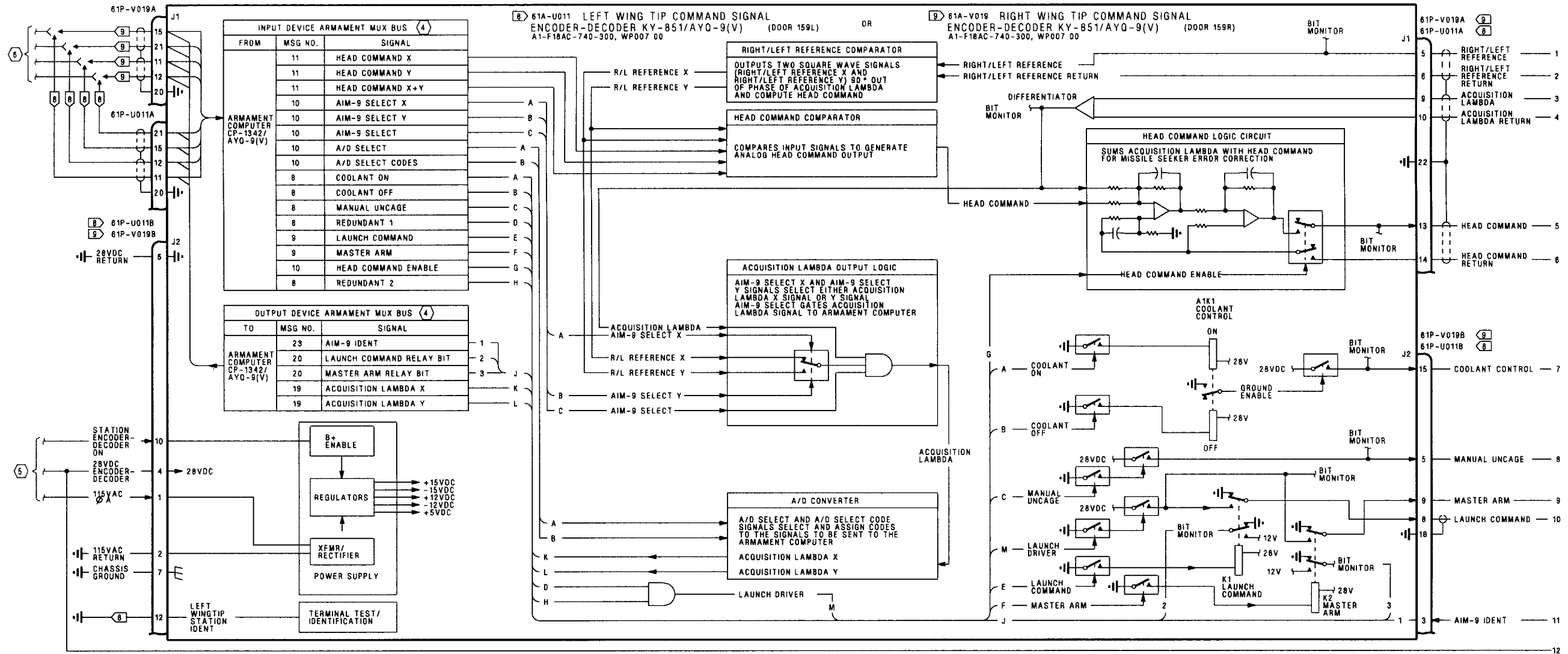


Figure 1.

Figure 1. Weapon Station 1, 9 AIM-9 Sidewinder Schematic (Sheet 1)

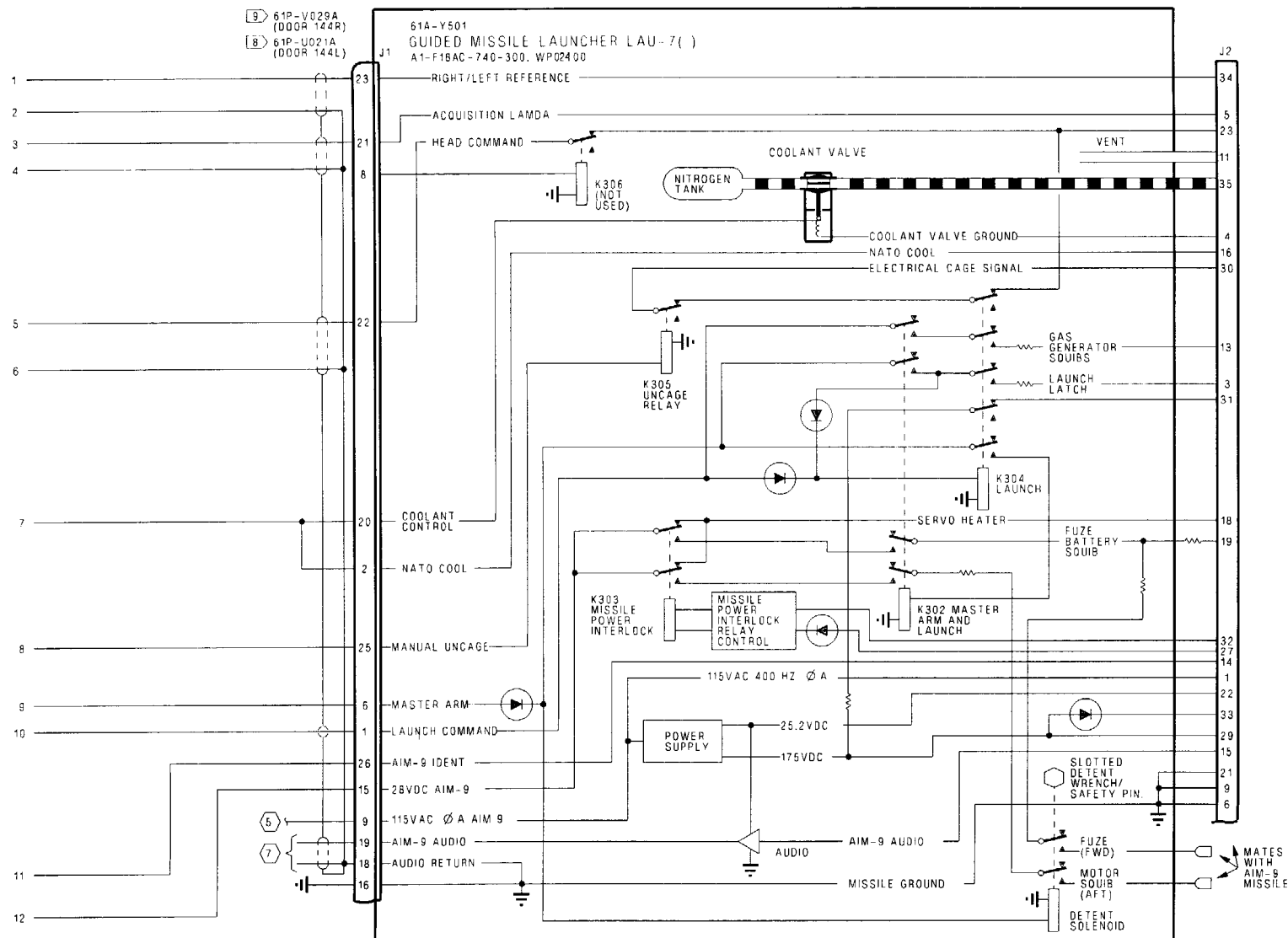


Figure 1.

Figure 1. Weapon Station 1, 9 AIM-9 Sidewinder Schematic (Sheet 2)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
- ④ ARMAMENT MUX BUS DATA, WP010 00.
- ⑤ APPLICABLE WEAPON POWER CONTROL SCHEMATIC:
WEAPON STATION 1 POWER CONTROL SCHEMATIC, WP026 00.
WEAPON STATION 9 POWER CONTROL SCHEMATIC, WP034 00.
- ⑥ AIM-9 SIDEWINDER AVIONIC INTERFACE SCHEMATIC, WP048 00.
- ⑦ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
- 8 WEAPON STATION 1.
- 9 WEAPON STATION 9.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 8 AIM-9 SIDEWINDER

STORES MANAGEMENT SYSTEM

Reference Material

None

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F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the two AIM-9 Sidewinders when loaded on weapon station 2 or 8.
3. The location of the components can be seen in WP008 00.

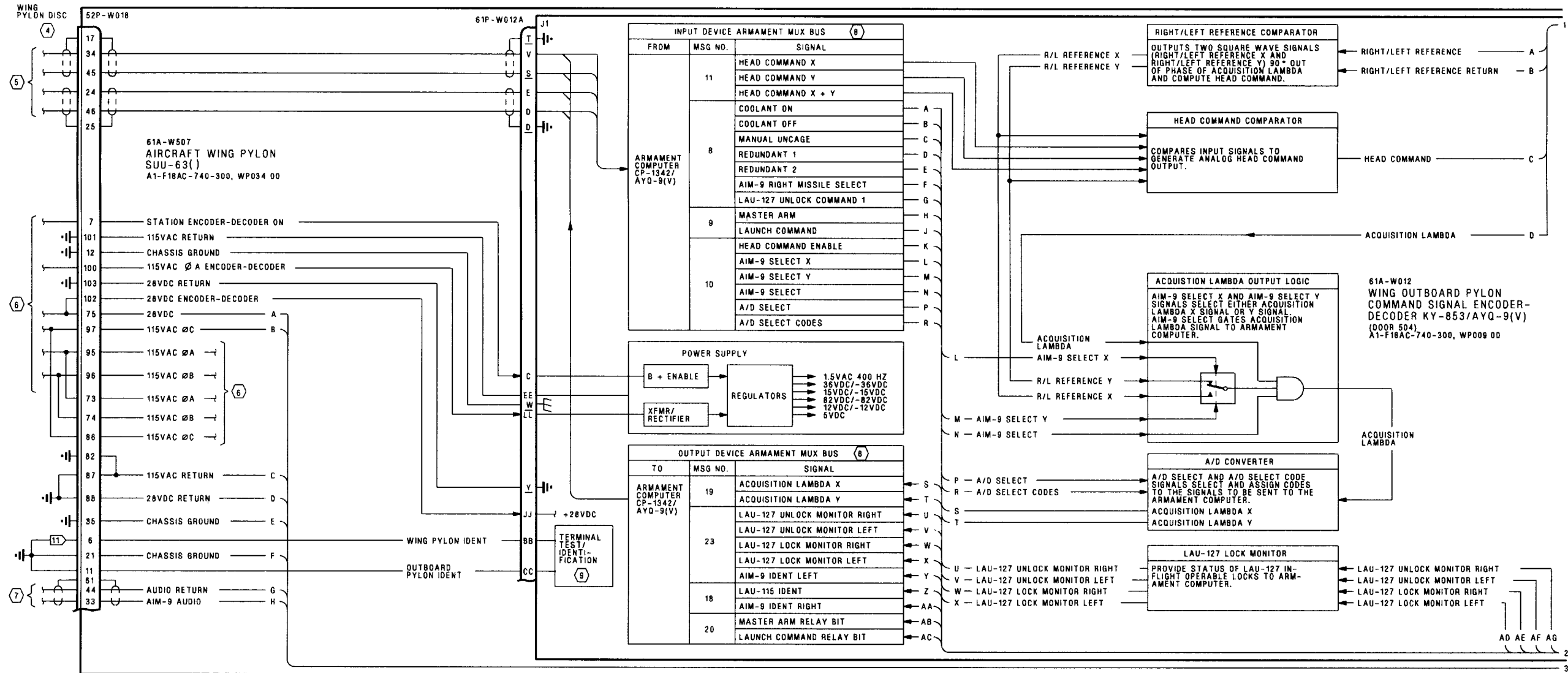


Figure 1.

Figure 1. Weapon Station 2, 8 AIM-9 Sidewinder Schematic (Sheet 1)



Figure 1.

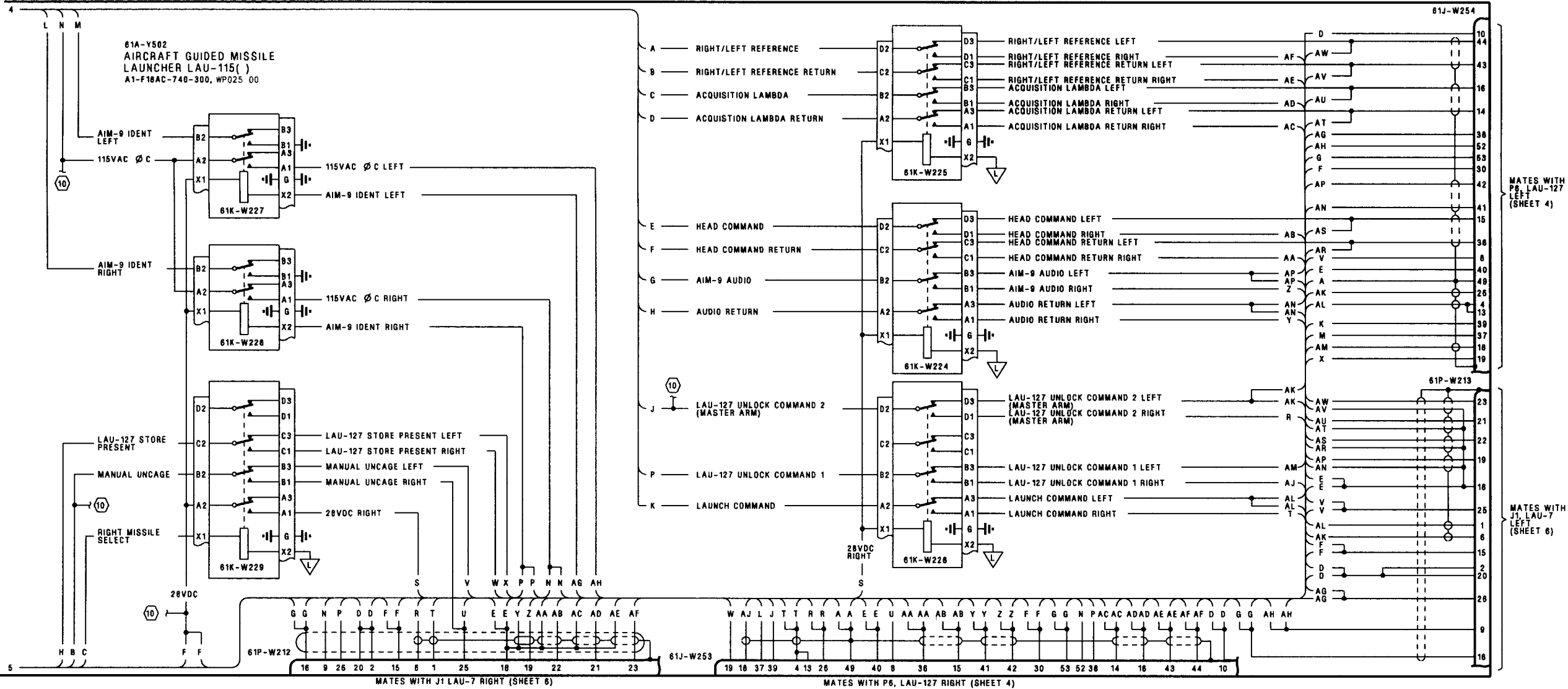


Figure 1.

Figure 1. Weapon Station 2, 8 AIM-9 Sidewinder Schematic (Sheet 3)

MATES WITH
61J-W253 OR
61J-W254
(SHEET 3)

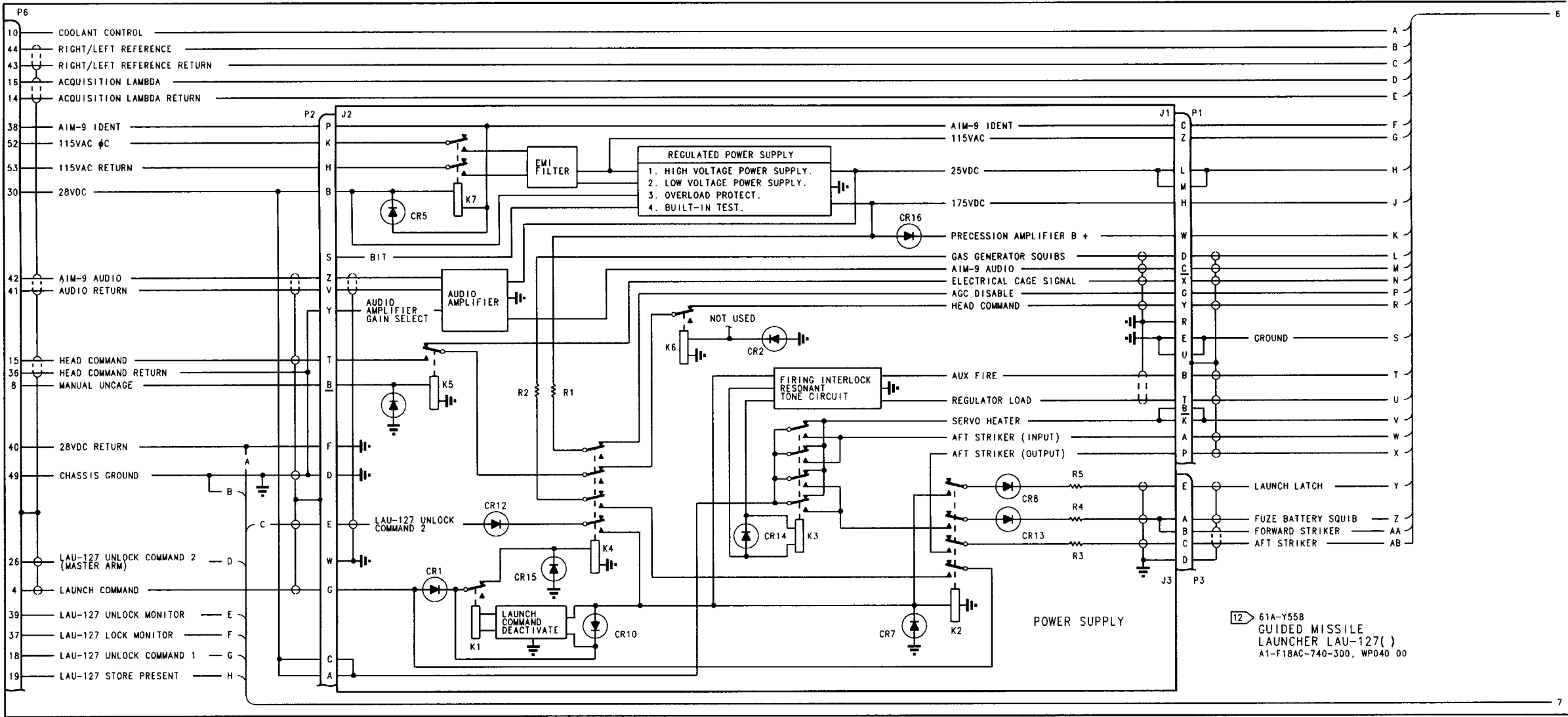


Figure 1.

Figure 1. Weapon Station 2, 8 AIM-9 Sidewinder Schematic (Sheet 4)

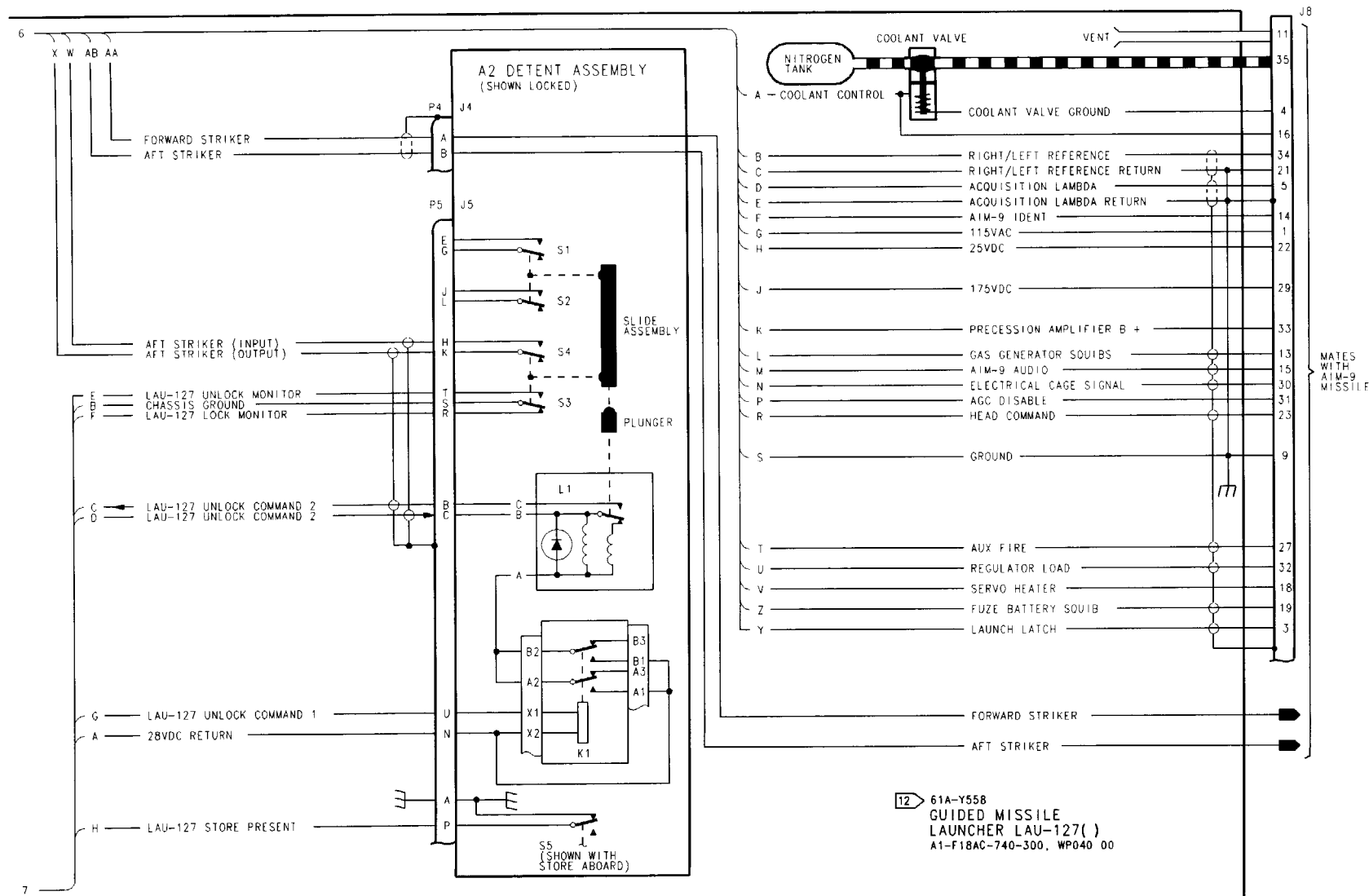


Figure 1.

Figure 1. Weapon Station 2, 8 AIM-9 Sidewinder Schematic (Sheet 5)



LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. PYLON DISCONNECT AND DOOR LOCATIONS:
STATION 2-52J-U062 (DOOR 61L)
STATION 8-52J-U068 (DOOR 61R)
5. AIM-9 SIDEWINDER AVIONIC INTERFACE SCHEMATIC, WP048 00.
6. APPLICABLE WEAPON POWER CONTROL SCHEMATIC:
WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
7. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
8. ARMAMENT MUX BUS DATA, WP010 00.
9. BUILT-IN TEST SCHEMATIC, WP023 00.
10. WEAPON STATION 2, 3, 7, 8 AIM-7 SPARROW SCHEMATIC, WP043 00.
11. WEAPON STATION 2.
12. LAU-127() GUIDED MISSILE LAUNCHER MAY ONLY BE USED ON AIRCRAFT 162394 THRU 163175 THAT HAVE HAD F/A-18 AFC 253 OR F/A-18 AFC 292 INSTALLED.

Figure 1. Weapon Station 2, 8 AIM-9 Sidewinder Schematic (Sheet 7)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AIM-9 SIDEWINDER AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

Title	WP Number
AIM-9 Sidewinder Avionic Schematic - 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	048 01
AIM-9 Sidewinder Avionic Schematic - 161353 AND UP, AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	048 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AIM-9 SIDEWINDER AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP, BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Materials

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC-27	-	Leading Edge Flap/Control Stick Changes (ECP MDA-F/A-18-00044)	1 Sep 86	ECP Coverage Only

1. INTRODUCTION

2. The schematic in this work package shows the aircraft related system functions for the AIM-9 side-

winder. This schematic supports weapon station 1, 2, 8 and 9 AIM-9 Sidewinder schematics.

3. The location of the components on this schematic can be seen in WP008 00.

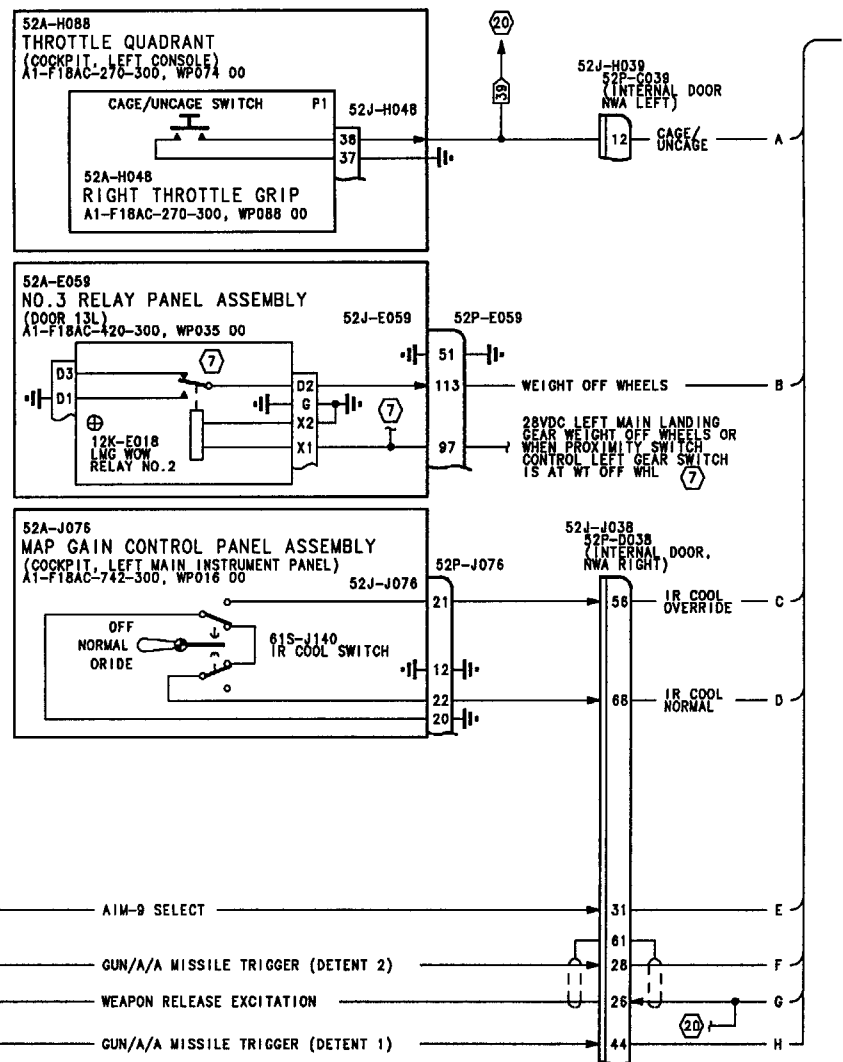
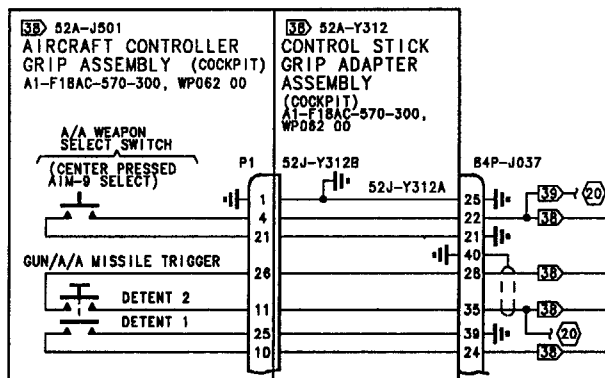
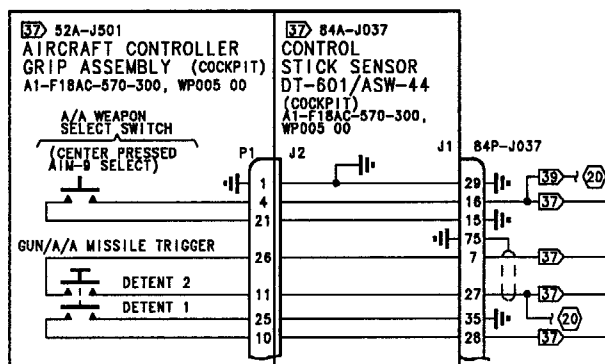


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 1)

Figure 1.

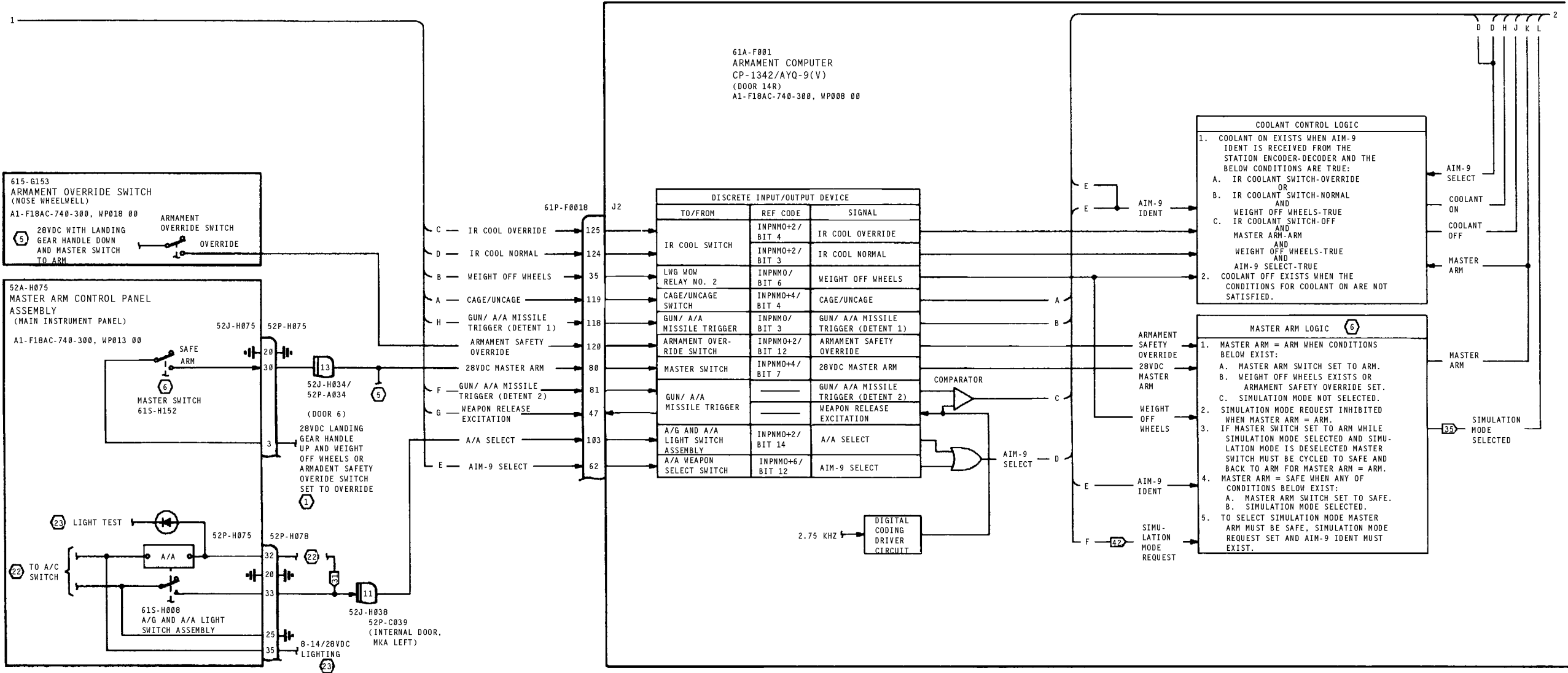


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 2)

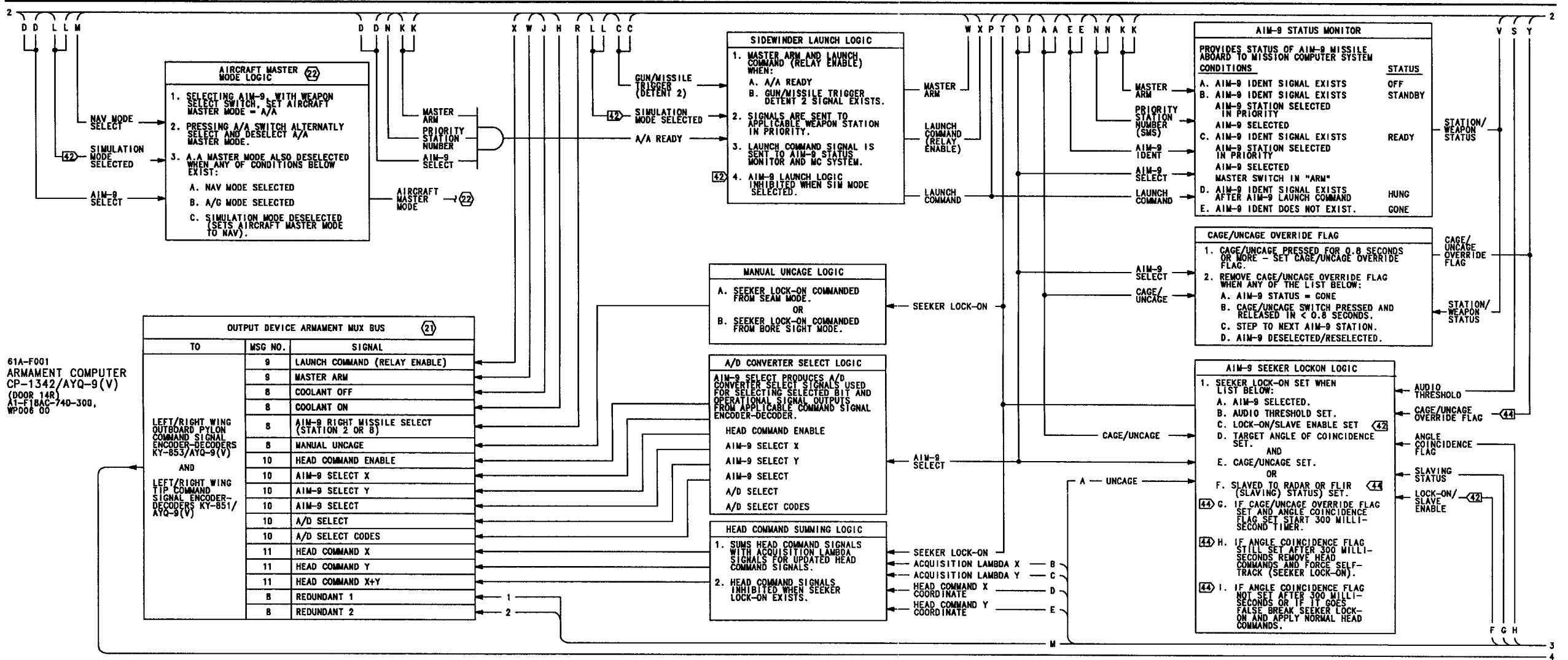


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 3)

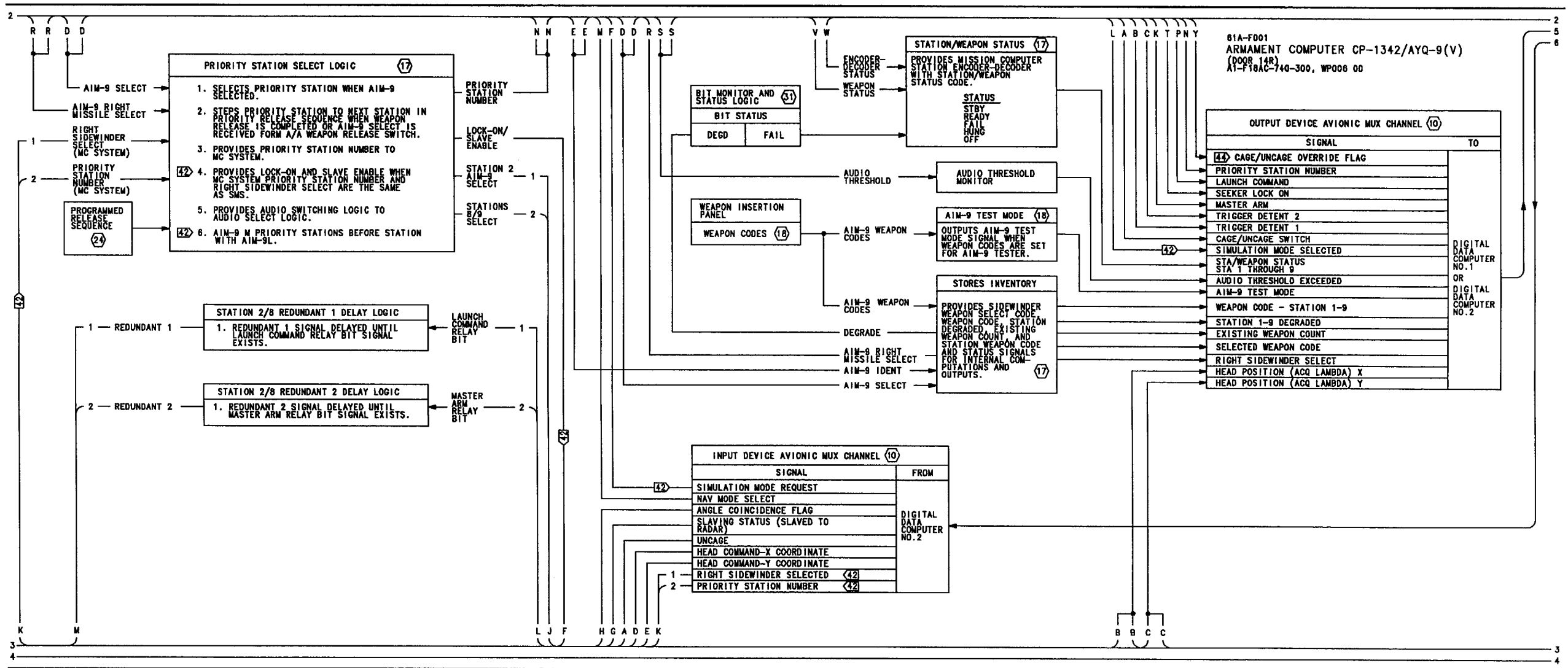


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 4)

Figure 1.

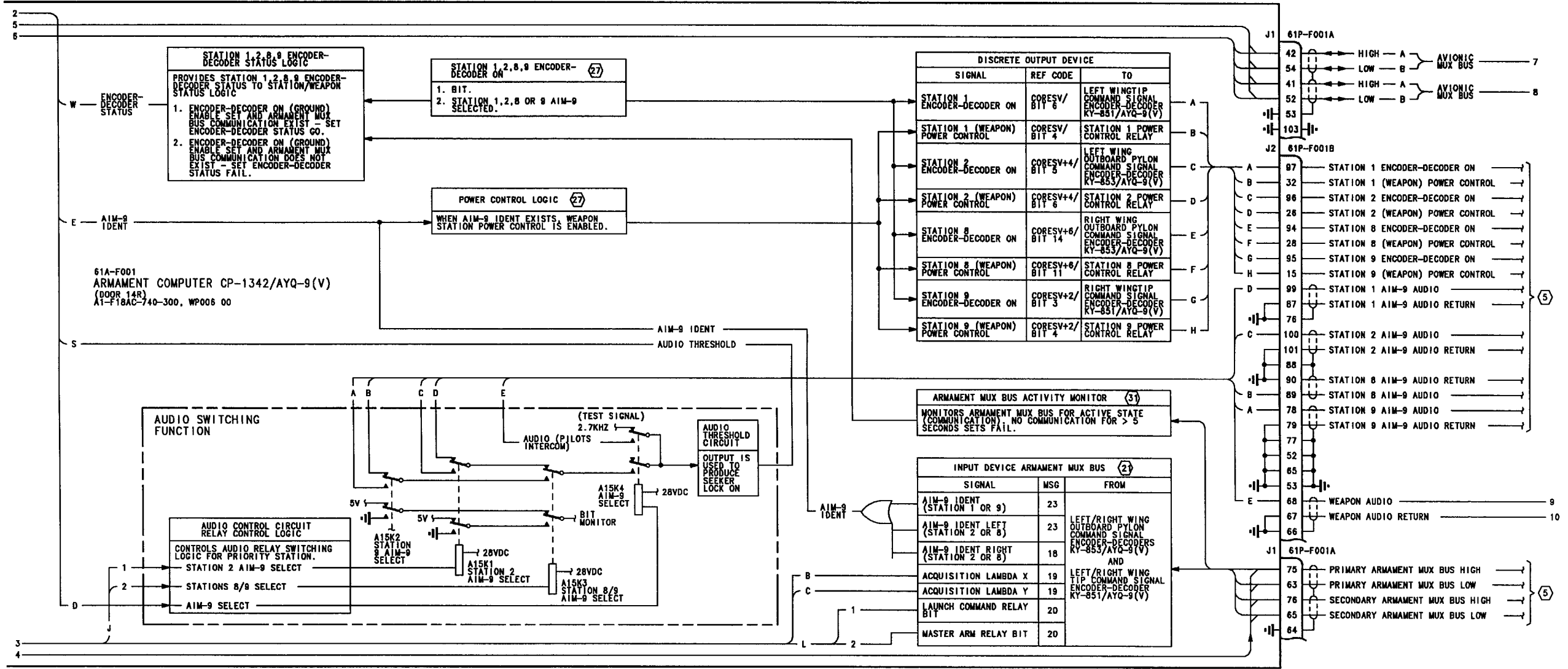


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 5)

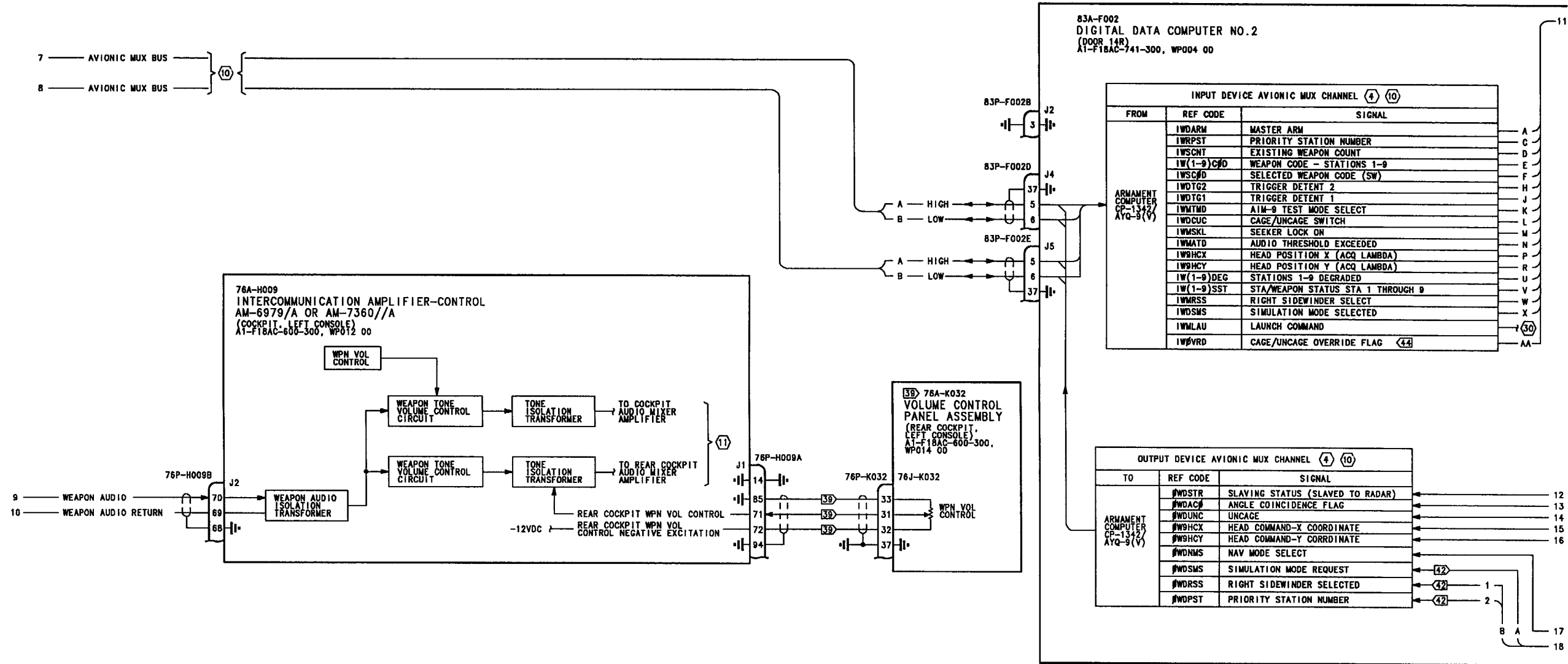


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 6)

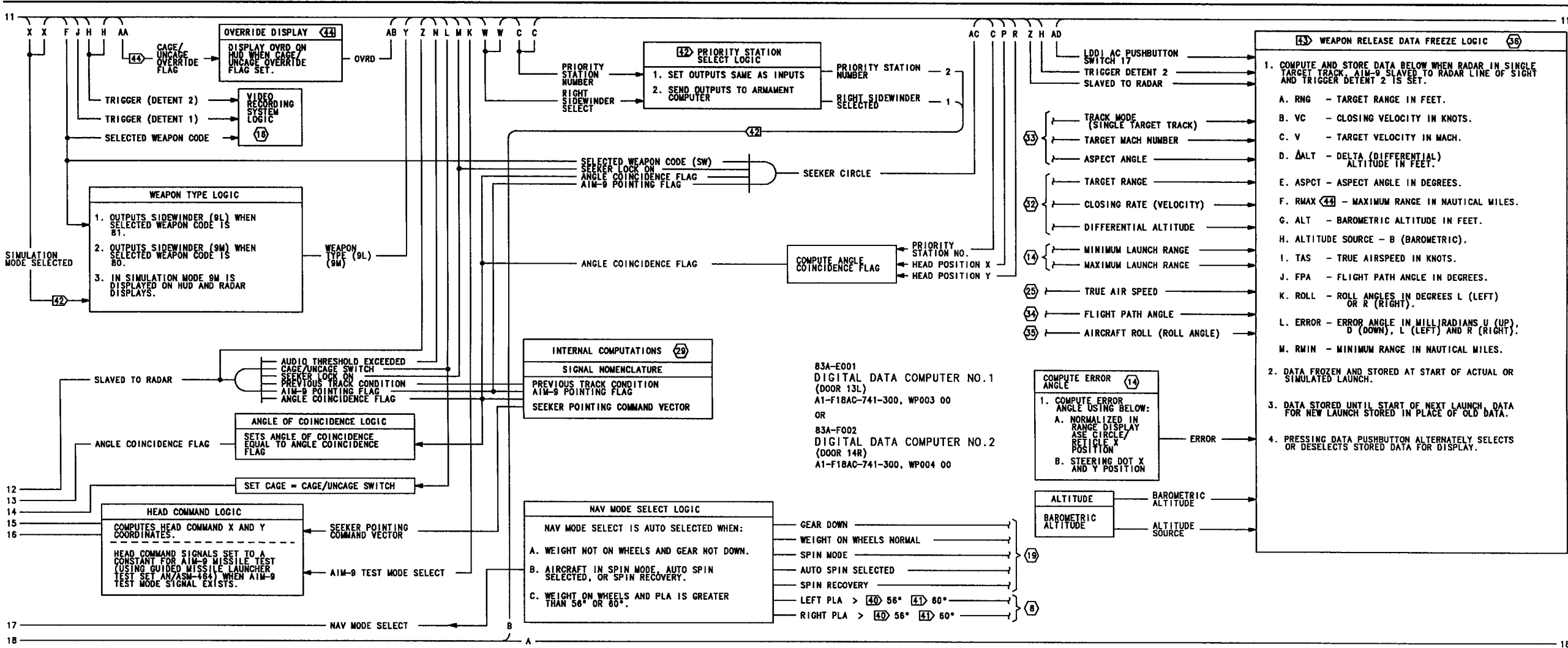


Figure 1. Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 7)

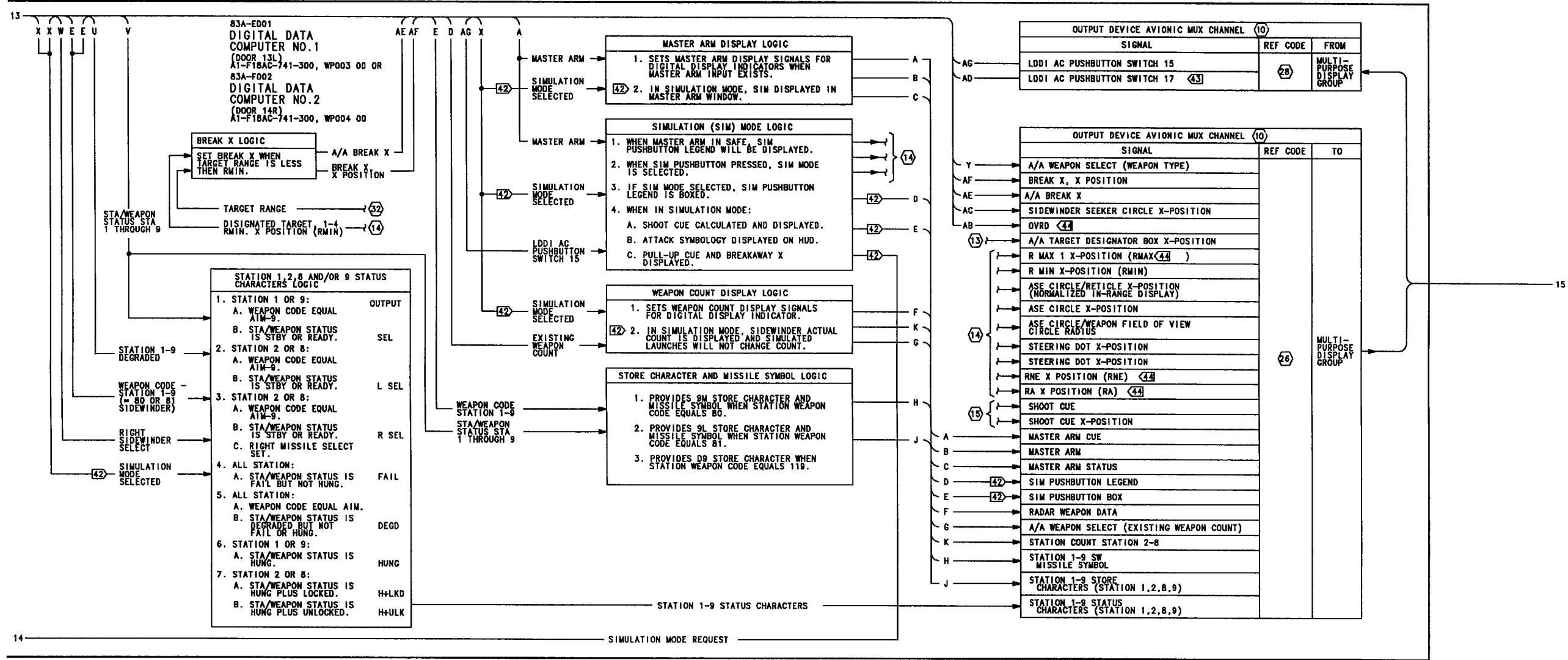


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 8)

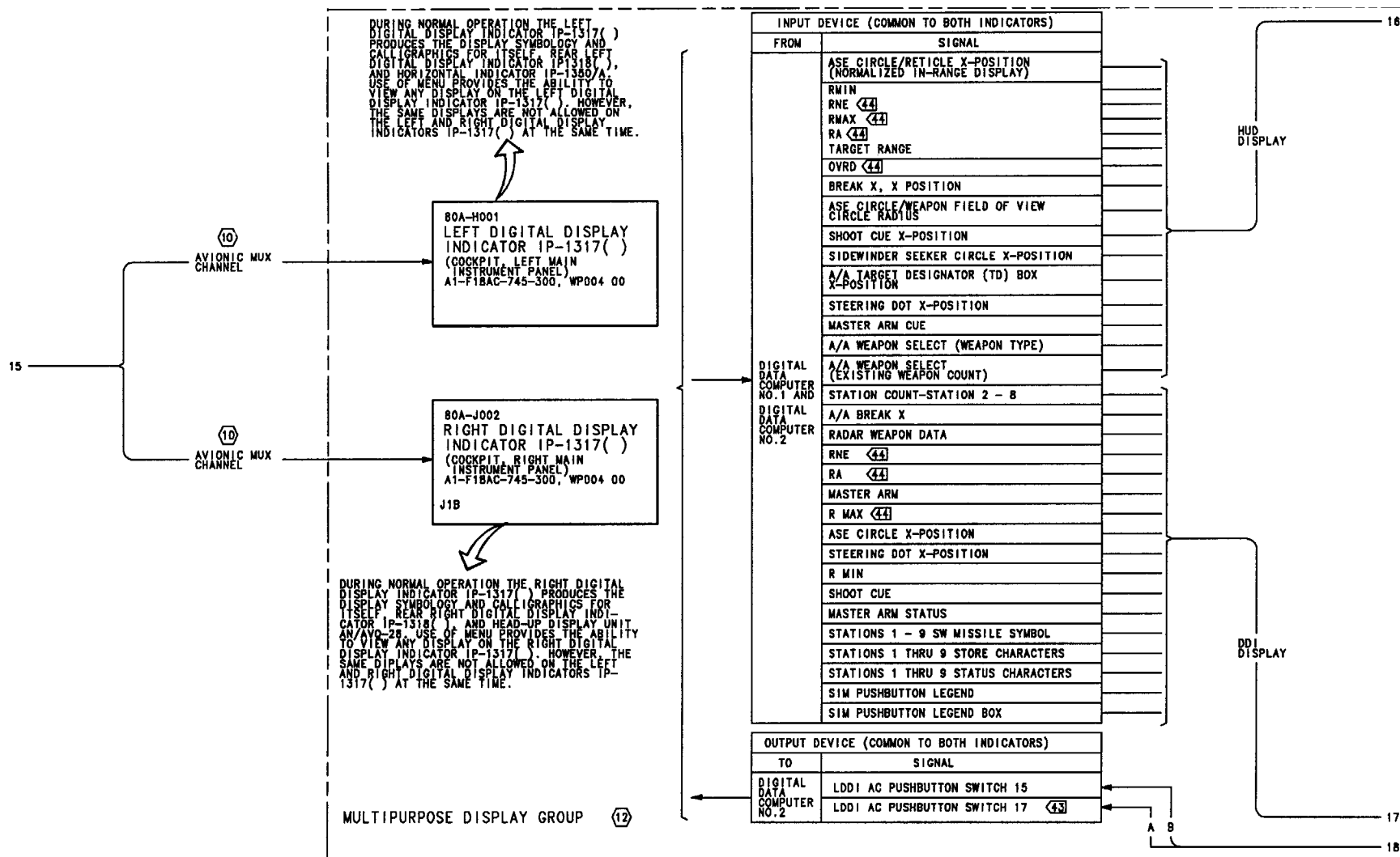


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 9)

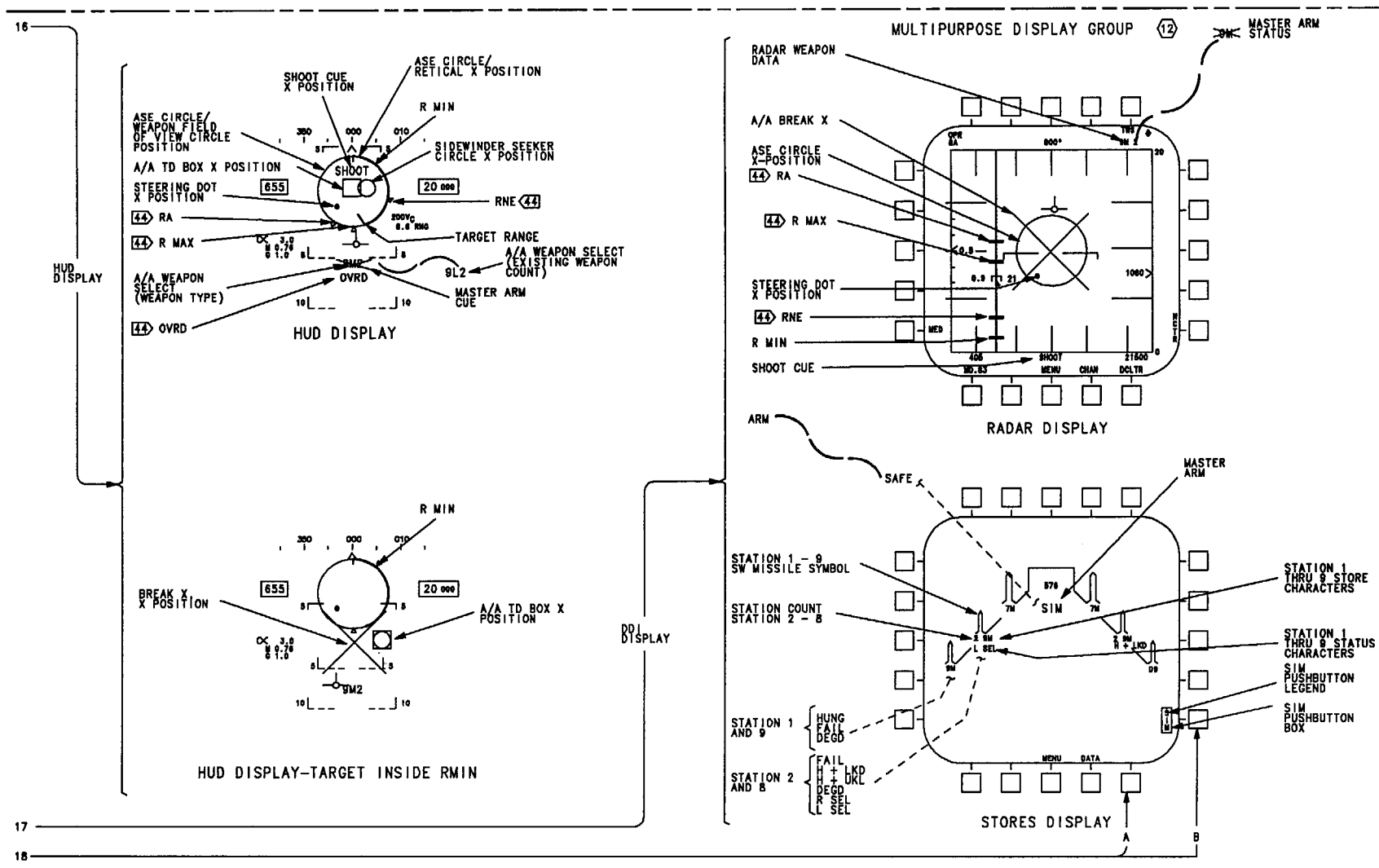


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 10)

48010110
Figure 1.

LEGEND			
1.	NONSTANDARD SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:		
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	13	AIR TO AIR ANTENNA CONTROL FUNCTIONAL SCHEMATIC, A1-F18AC-742-500, WP015 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	14	ASE CIRCLE, STEERING DOT, R MAX AND R MIN, AND BREAK X DISPLAY SCHEMATIC, A1-F18AC-742-500, WP023 00.
	C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.	15	TIME TO GO/LOST AND MISSILE TIME OF FLIGHT DISPLAY SCHEMATIC, A1-F18AC-742-500, WP027 00.
	D. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	16	VIDEO RECORDING SYSTEM SCHEMATIC, A1-F18AC-770-500, WP006 00 F/A-18A OR WP007 00 F/A-18B.
3.	ABBREVIATIONS: SEE WP002 01.	17	STORES INVENTORY SCHEMATIC, WP015 00.
4	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.	18	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.
5	APPLICABLE WEAPON STATION AIM-9 SIDEWINDER SCHEMATIC: WEAPON STATION 1 AIM-9 SIDEWINDER SCHEMATIC, WP046 00. WEAPON STATION 2 AIM-9 SIDEWINDER SCHEMATIC, WP047 00. WEAPON STATION 8 AIM-9 SIDEWINDER SCHEMATIC, WP047 00. WEAPON STATION 9 AIM-9 SIDEWINDER SCHEMATIC, WP046 00.	19	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
6	MASTER ARM SCHEMATIC, WP017 00.	20	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
7	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP006 00.	21	ARMAMENT MUX BUS DATA, WP010 00.
8	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC A1-F18AC-570-500, WP029 00.	22	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.
9	DELETED	23	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.
10	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	24	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.
11	INTERCOMMUNICATIONS AND AUDIO SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-600-500, WP013 00.	25	AIR DATA COMPUTER SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-560-500, WP004 00.
12	THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD-UP DISPLAY UNIT AN/AVQ-28, HORIZONTAL INDICATOR IP-1350/A, AND ON F/A-18B THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), REAR RIGHT DIGITAL DISPLAY INDICATOR IP-1318(), AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP, REFER TO A1-F18AC-745-500.	26	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: A1-18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		27	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 1 POWER CONTROL SCHEMATIC, WP026 00 WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00. WEAPON STATION 9 POWER CONTROL SCHEMATIC, WP034 00.
		28	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING: DISPLAYS TEST A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		29	REF CODES USED FOR THESE COMPUTATIONS ARE MISSION COMPUTER MNEMONICS. TO LOCATE INTERNAL REF CODES IN A1-F18AC-FIM-000. USE THE SCHEMATIC DIAGRAMS FOR THE INPUT/OUTPUT REF CODES.
		30	VECTOR MODE 2 WAY OPERATION FUNCTIONAL SCHEMATIC, A1-F18AC-630-510(C), WP012 00.
		31	BUILT-IN TEST SCHEMATIC, WP023 00.
		32	RANGE/RANGE RATE AND TARGET DIFFERENTIAL ALT DISPLAY, A1-F18AC-742-500, WP026 00.
		33	AIR-TO-AIR ACQUISITION AND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP035 00.
		34	NAVIGATION VELOCITY AND POSITION KEEPING FUNCTIONAL SCHEMATIC A1-F18AC-730-500, WP018 00.
		35	NAVIGATION ATTITUDE AND HEADING FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP017 00.
		36	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
		37	161353 THRU 161519, BEFORE F/A-18 AFC 27.
		38	161520 AND UP: ALSO 151353 THRU 161519 AFTER F/A-18 AFC 27.
		39	F/A-18B
		40	161353 THRU 161528.
		41	161702 AND UP.
		42	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A AND UP (A1-F18AC-SCM-000).
		43	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER 2 CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).
		44	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).

Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 11)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AIM-9 SIDEWINDER AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Materials

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION

Sidewinder. This schematic supports weapon station 1, 9 and 2, 8 AIM-9 Sidewinder schematics.

2. The schematic in this work package shows the aircraft related system functions for the AIM-9

3. The location of the components on this schematic can be seen in WP008 00.

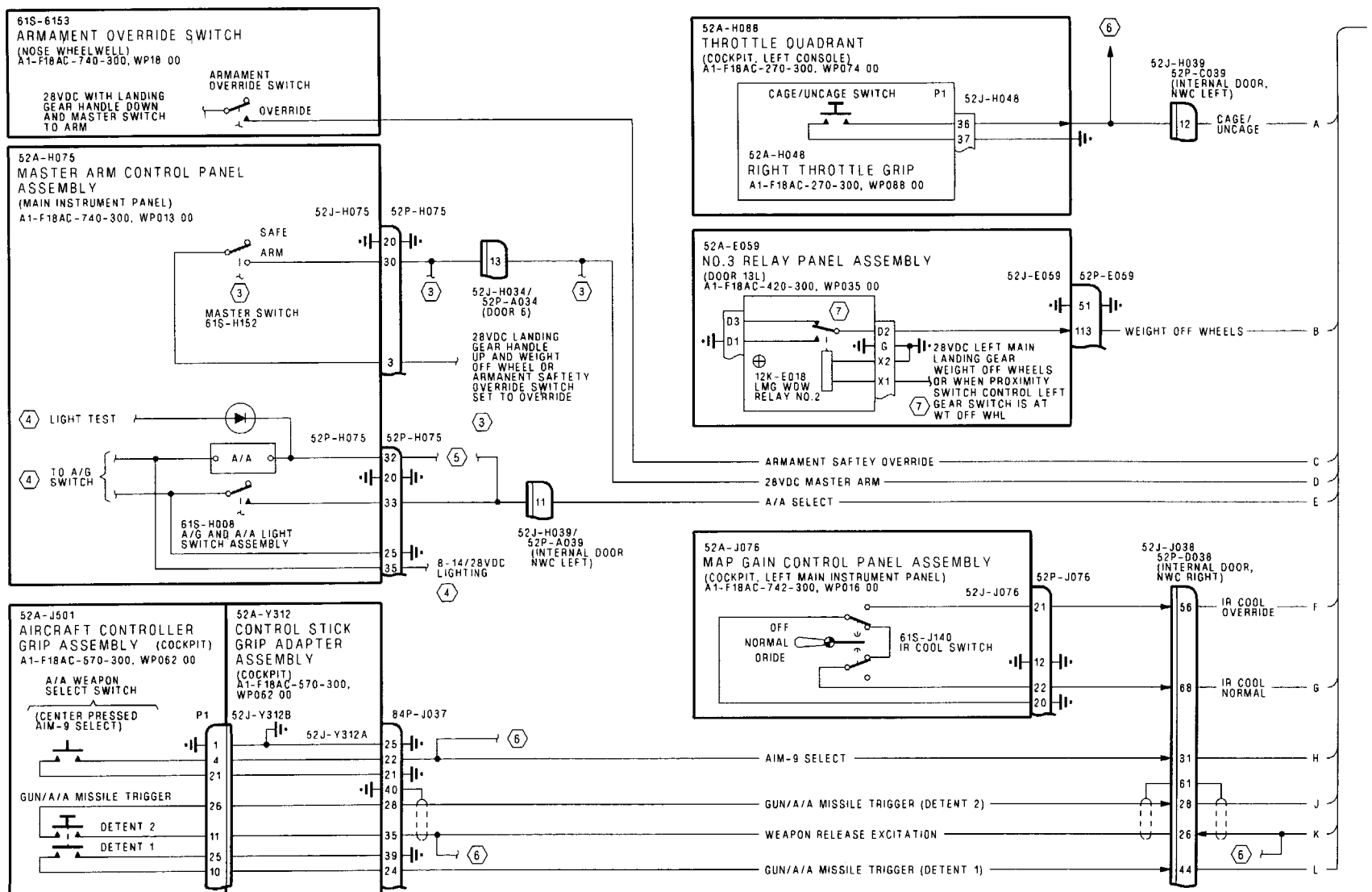


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 1)

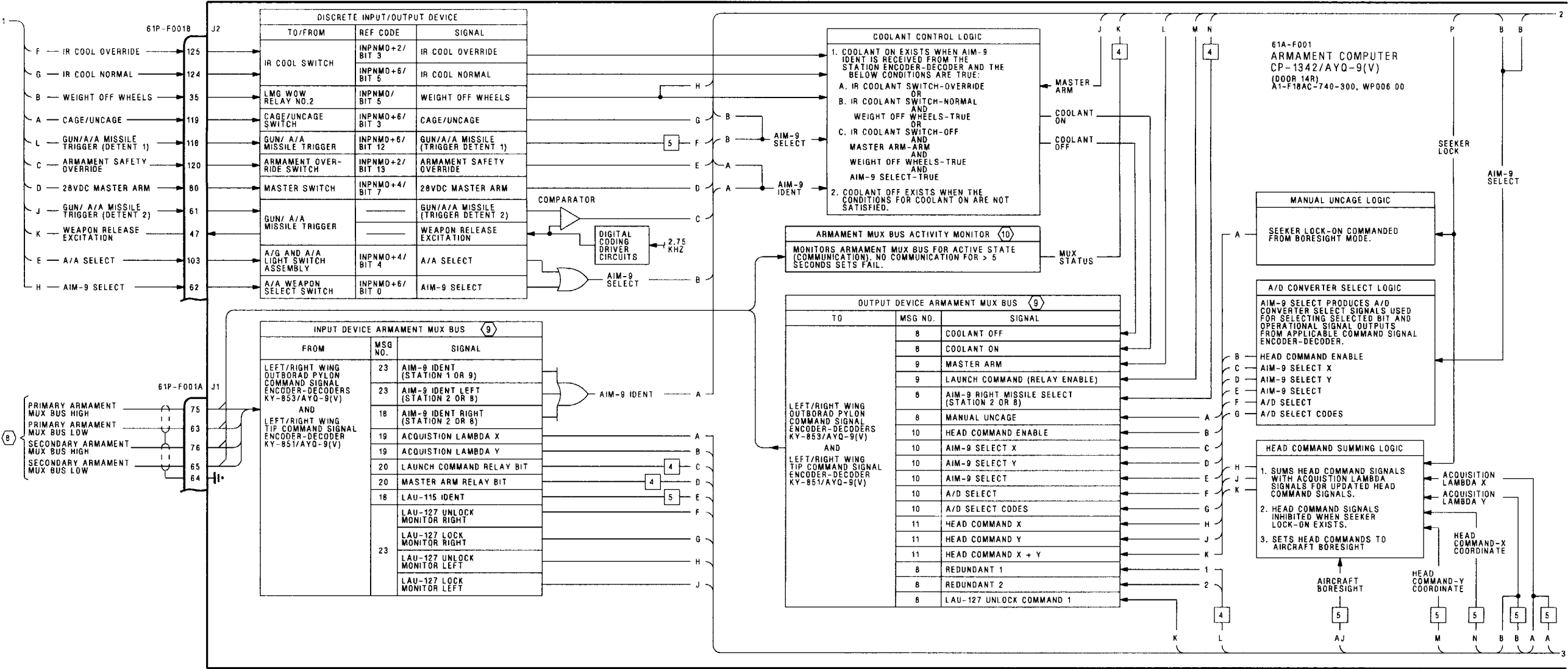


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 2)

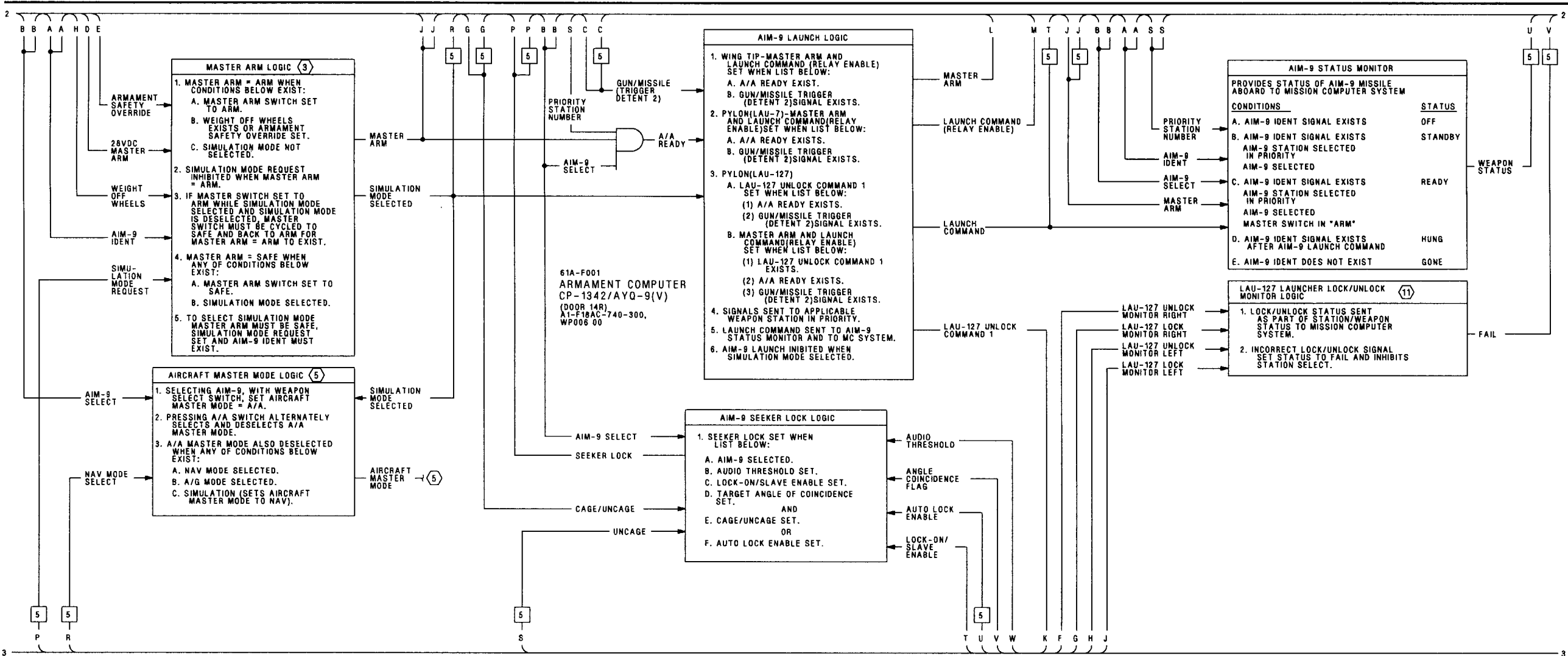


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 3)

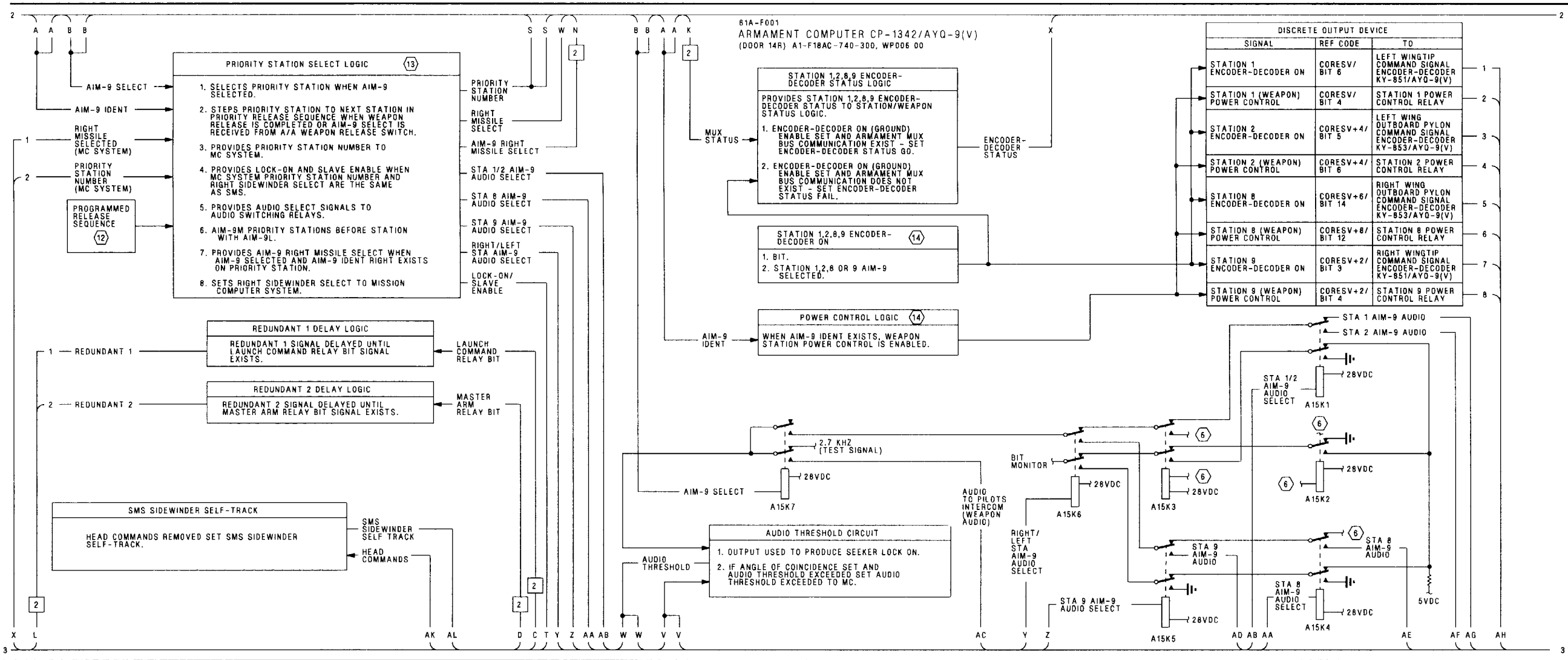


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 4)

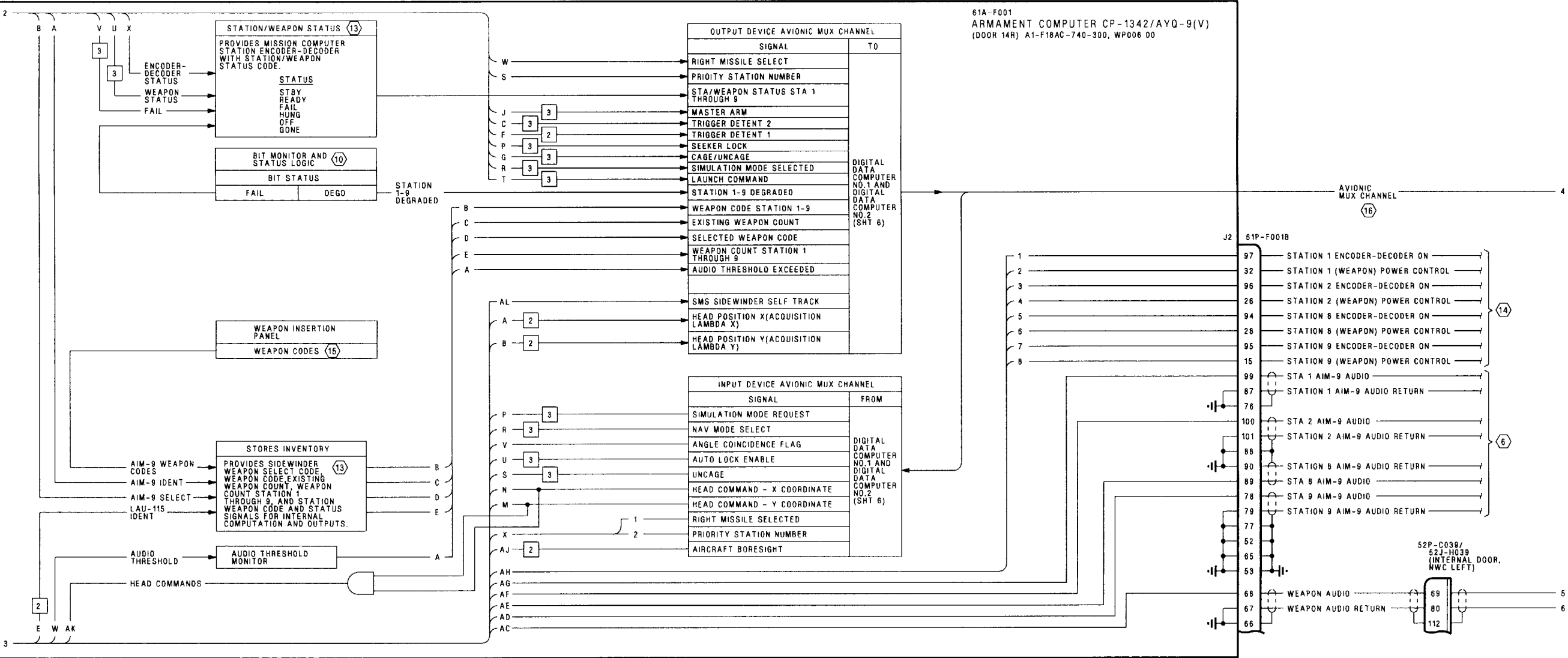


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 5)

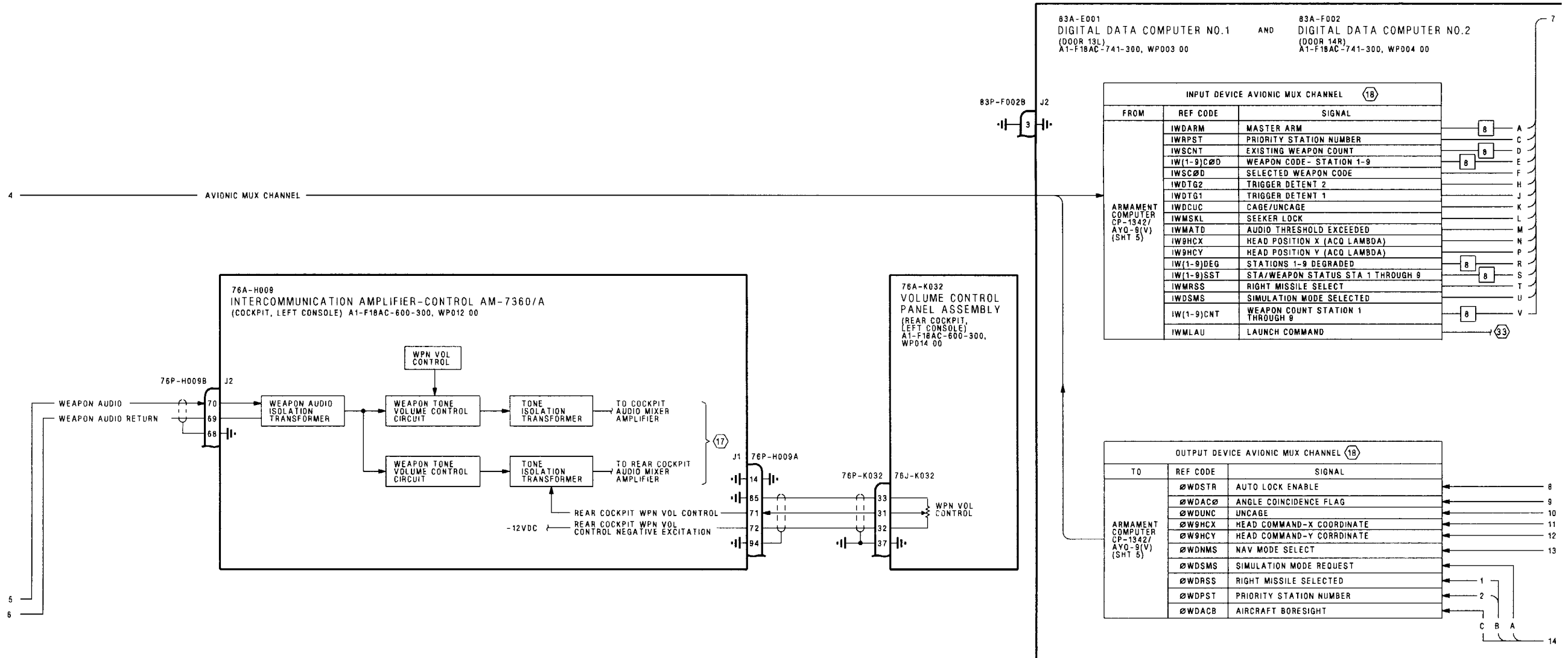


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 6)

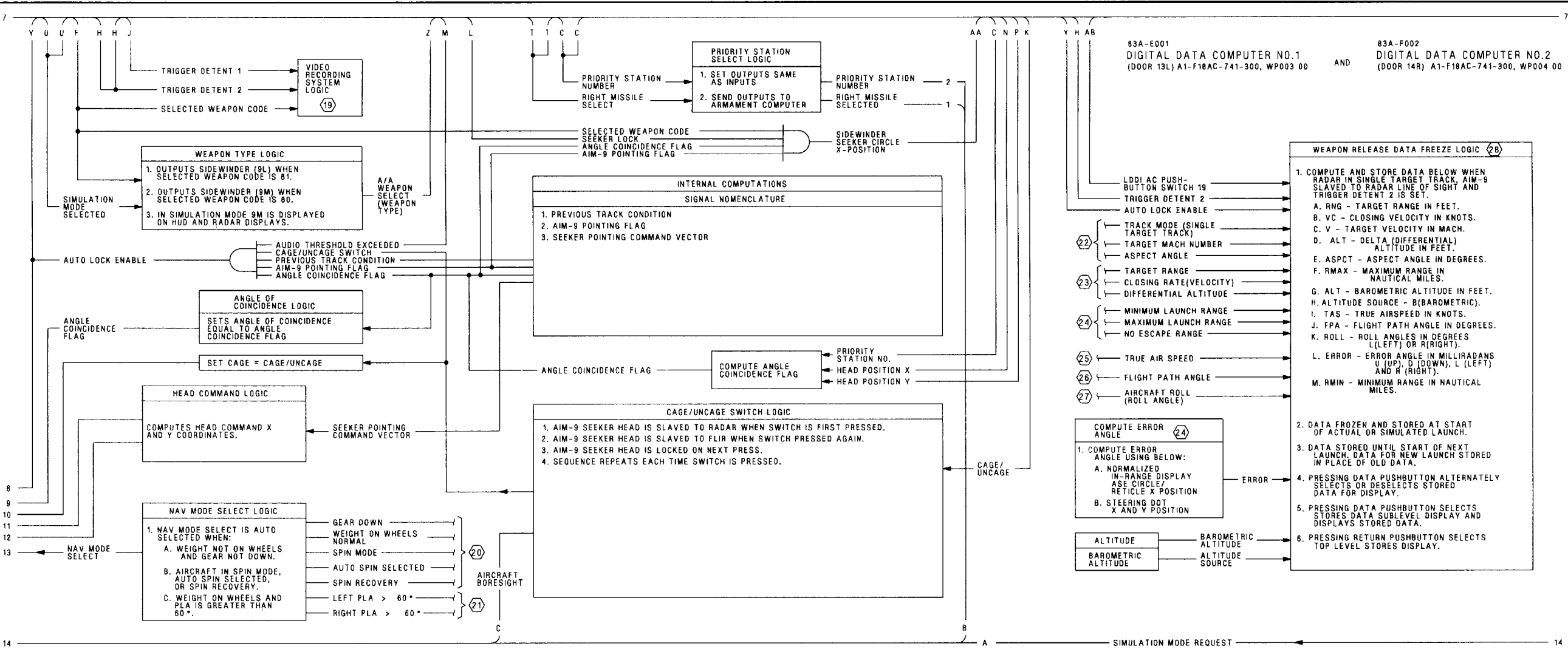


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 7)

48020107
Figure 1.



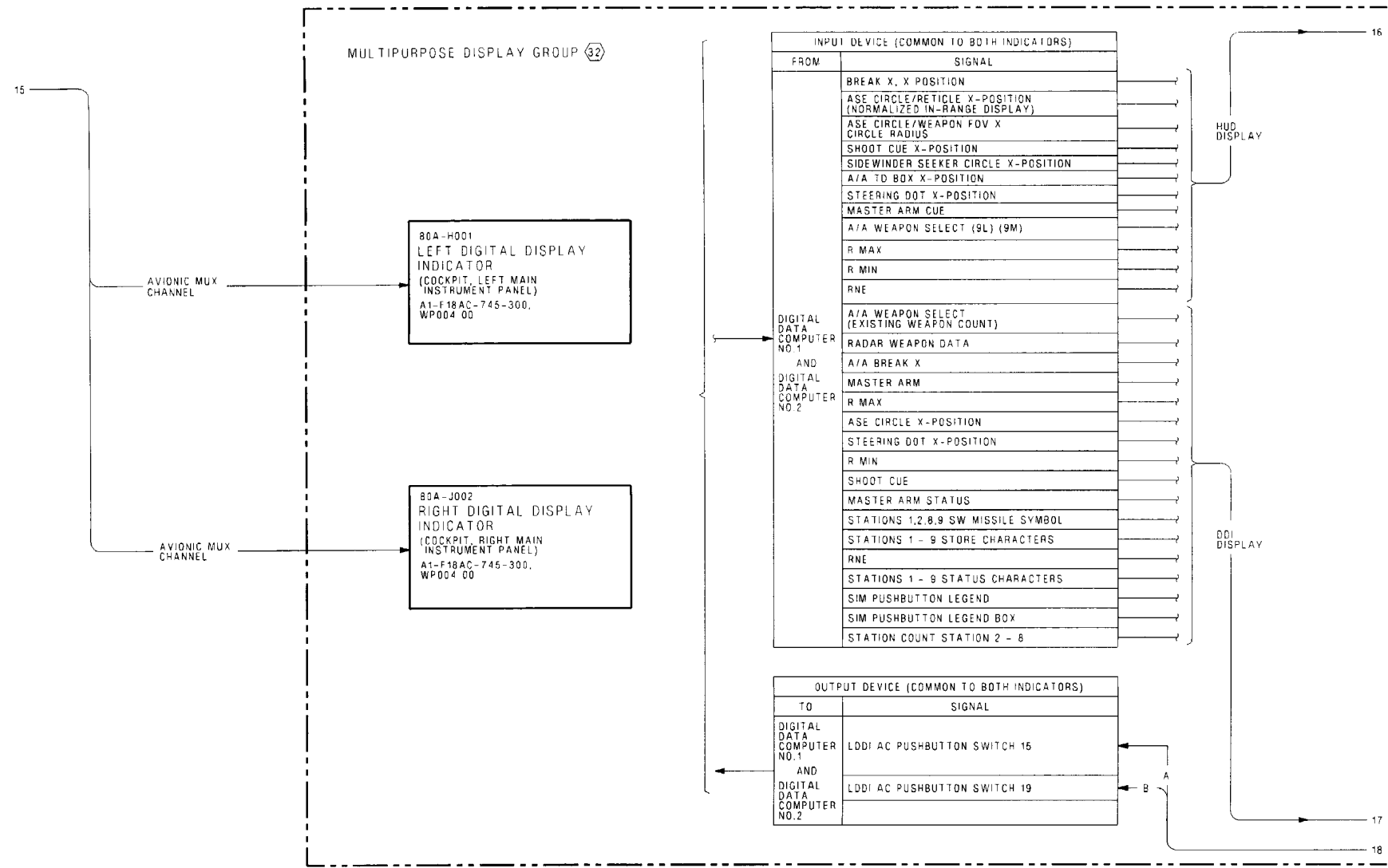


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 9)

Figure 1.

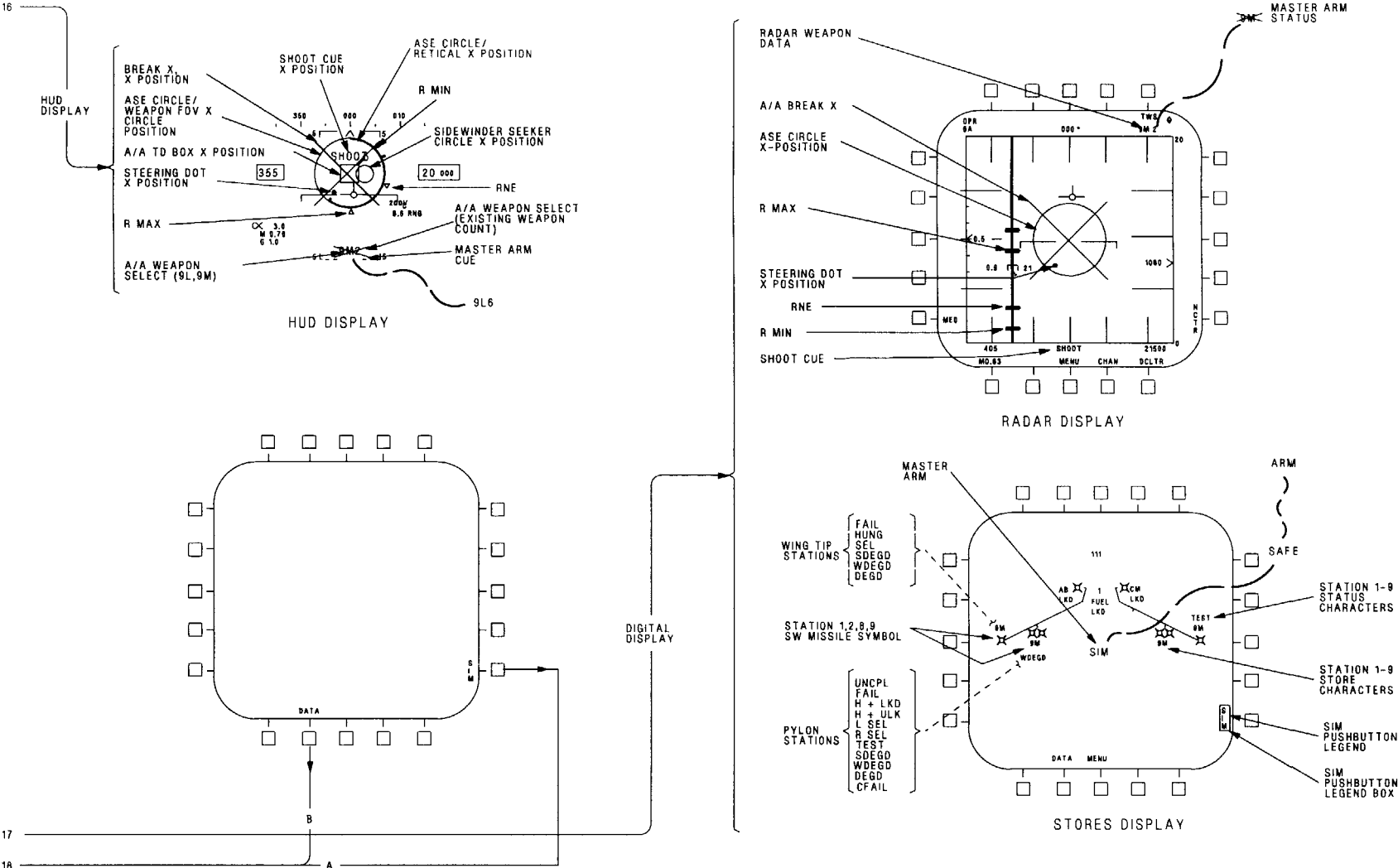


Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 10)

LEGEND			
1. 2.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01. CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING. IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY. C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE. D. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	<div>11</div> <div>LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.</div>	<div>23</div> <div>RANGE/RANGE RATE AND TARGET DIFFERENTIAL ALT DISPLAY SCHEMATIC, A1-F18AC-742-500, WP026 00.</div>
		<div>12</div> <div>PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.</div>	<div>24</div> <div>ASE CIRCLE, STEERING DOT. R MAX AND R MIN, AND BREAK X DISPLAY SCHEMATIC, A1-F18AC-742-500, WP023 00.</div>
		<div>13</div> <div>STORES INVENTORY SCHEMATIC, WP015 00.</div>	<div>25</div> <div>AIR DATA COMPUTER SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-560-500, WP004 00.</div>
		<div>14</div> <div>APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC. WEAPON STATION 1 POWER CONTROL SCHEMATIC, WP026 00. WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00. WEAPON STATION 9 POWER CONTROL SCHEMATIC, WP034 00.</div>	<div>26</div> <div>NAVIGATION VELOCITY AND POSITION KEEPING FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP018 00.</div>
		<div>15</div> <div>ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.</div>	<div>27</div> <div>NAVIGATION ATTITUDE AND HEADING FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP017 00.</div>
<div>3</div>	MASTER ARM SCHEMATIC, WP017 00.	<div>16</div> <div>SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.</div>	<div>28</div> <div>DATA FREEZE DISPLAY SCHEMATIC, WP073 00.</div>
<div>4</div>	COCKPIT WARNING/CAUTION/ADVISORY LIGHTING SYSTEM SCHEMATIC, A1-F18AC-940-500, WP006 00.	<div>17</div> <div>INTERCOMMUNICATIONS AND AUDIO SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-600-500, WP013 00.</div>	<div>29</div> <div>AIR TO AIR ANTENNA CONTROL FUNCTIONAL SCHEMATIC, A1-F18AC-742-500, WP015 00.</div>
<div>5</div>	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	<div>18</div> <div>FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.</div>	<div>30</div> <div>TIME TO GO/LOST AND MISSILE TIME OF FLIGHT DISPLAY SCHEMATIC, A1-F18AC-742-500, WP027 00.</div>
<div>6</div>	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	<div>19</div> <div>VIDEO RECORDING SYSTEM SCHEMATIC, A1-F18AC-770-500, WP006 00 (F/A-18A) OR WP007 00 (F/A-18B).</div>	<div>31</div> <div>DISPLAY REF CODES ARE NOT SHOWN: 1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. 2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. 3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAYS TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).</div>
<div>7</div>	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP006 00.	<div>20</div> <div>CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.</div>	
<div>8</div>	APPLICABLE WEAPON STATION AIM-9 SIDEWINDER SCHEMATIC: WEAPON STATION 1, 9 AIM-9 SIDEWINDER SCHEMATIC, WP046 00. WEAPON STATION 2, 8 AIM-9 SIDEWINDER SCHEMATIC, WP047 00.	<div>21</div> <div>APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.</div>	<div>32</div> <div>MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.</div>
<div>9</div>	ARMAMENT MUX BUS DATA, WP010 00.	<div>22</div> <div>AIR TO AIR ACQUISITION AND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP035 00.</div>	<div>33</div> <div>VECTOR MODE 2 WAY OPERATION FUNCTIONAL SCHEMATIC, A1-F18AC-630-510(C), WP012 00.</div>
<div>10</div>	BUILT-IN TEST SCHEMATIC, WP024 00.		

Figure 1.

Figure 1. AIM-9 Sidewinder Avionic Interface Schematic (Sheet 11)

Figure 1.

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 2, 3, 7, 8 AGM-45 SHRIKE****STORES MANAGEMENT SYSTEM**

EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A + AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A + AND UP (A1-F18AC-SCM-000) AND BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation Of Aircraft Wiring Provisions For Additional Weapons (ECP MDA-F/A-18-00090)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION.

2. The schematic in this work package shows the system functions for the AGM-45 SHRIKE when loaded on weapon station 2, 3, 7, or 8.

3. The location of the components on this schematic can be seen in WP008 00.

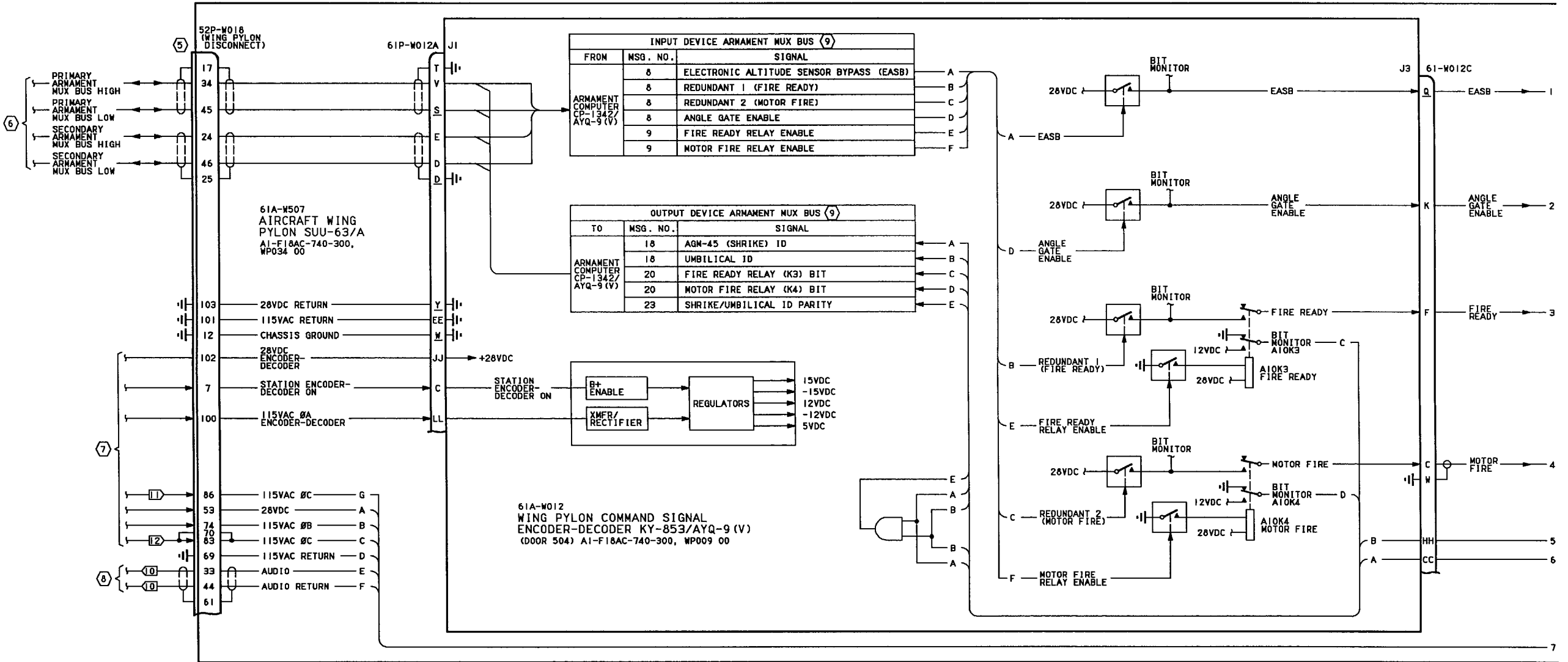


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AGM-45 Shrike Schematic (Sheet 1)

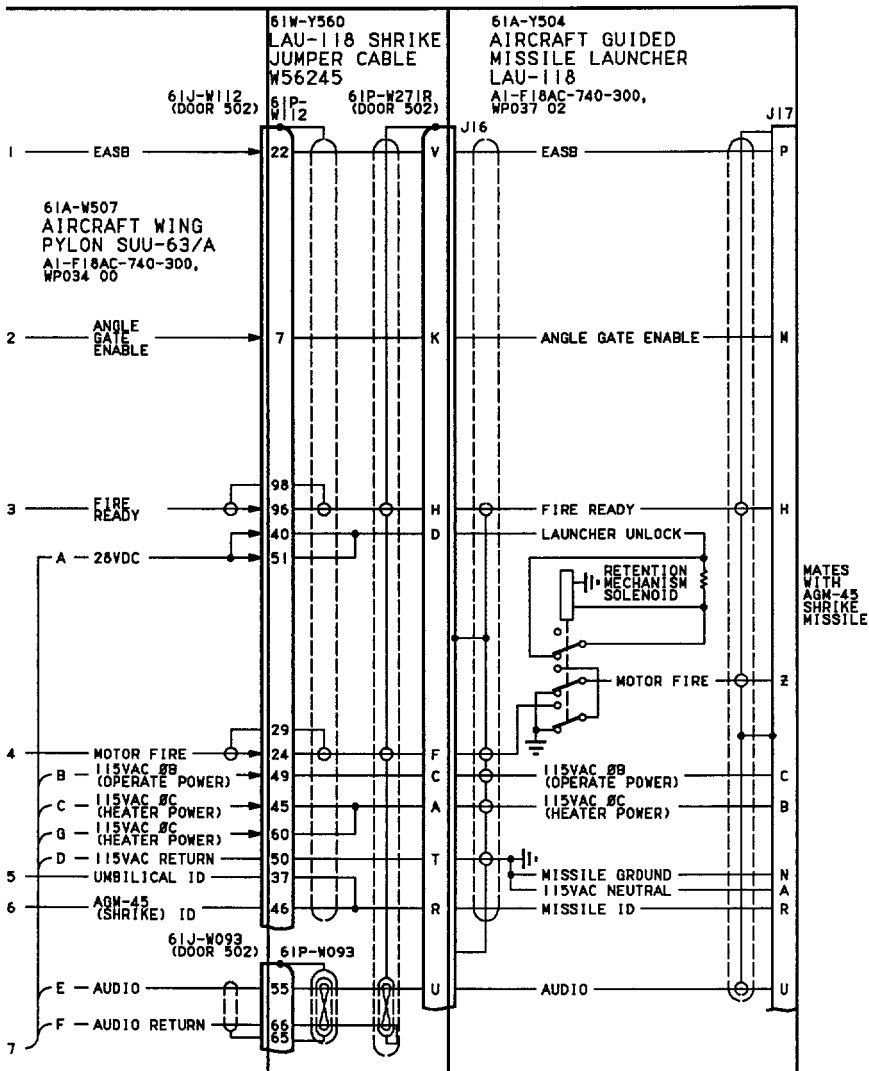


Figure 1. Weapon Station 2, 3, 7, 8 AGM-45 Shrike Schematic (Sheet 2)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. LINE UNDER LETTER (S) INDICATES LOWER PIN LETTER.
 4. ABBREVIATIONS: SEE WP002 01.
- ⑤ PYLON DISCONNECT CONNECTOR AND DOOR LOCATION.
STATION 2 - 52J-U062 (DOOR 61L)
STATION 3 - 52J-U063 (DOOR 60L)
STATION 7 - 52J-V067 (DOOR 60R)
STATION 8 - 52J-V068 (DOOR 61R)
- ⑥ AGM-45 SHRIKE AVIONIC INTERFACE SCHEMATIC, WP058 02.
- ⑦ APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC.
WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP024 00.
WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP025 00.
WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP029 00.
WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP030 00.
- ⑧ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
- ⑨ ARMAMENT MUX BUS DATA, WP011 00.
- 10 STATION 2 AND 8.
- 11 161353 THRU 161987 BEFORE F/A-18 AFC 74.
- 12 162934 AND UP, ALSO 161353 THRU 161984 AFTER F/A-18 AFC 74.

Figure 1. Weapon Station 2, 3, 7, 8 AGM-45 Shrike Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-45 SHRIKE AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AVQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A+ AND UP (A1-F18AC-SCM-000) AND BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.

Reference Material

None

Alphabetical Index

Subject	Page No.
AGM-45 Shrike Avionic Interface Schematic, Figure 1	2
Introduction	1

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 48	-	Automatic AC BUS Isolation, Incorporation Of (ECP MDA-F/A-18-00121)	1 Dec 89	ECP Coverage Only

1. **INTRODUCTION.**
2. The work package shows the aircraft system functions related to the AGM-45 Shrike. The Schematic supplements the weapon station 2, 3, 7, 8 Shrike schematic.
3. The location of the components on this schematic can be seen in WP008 00.

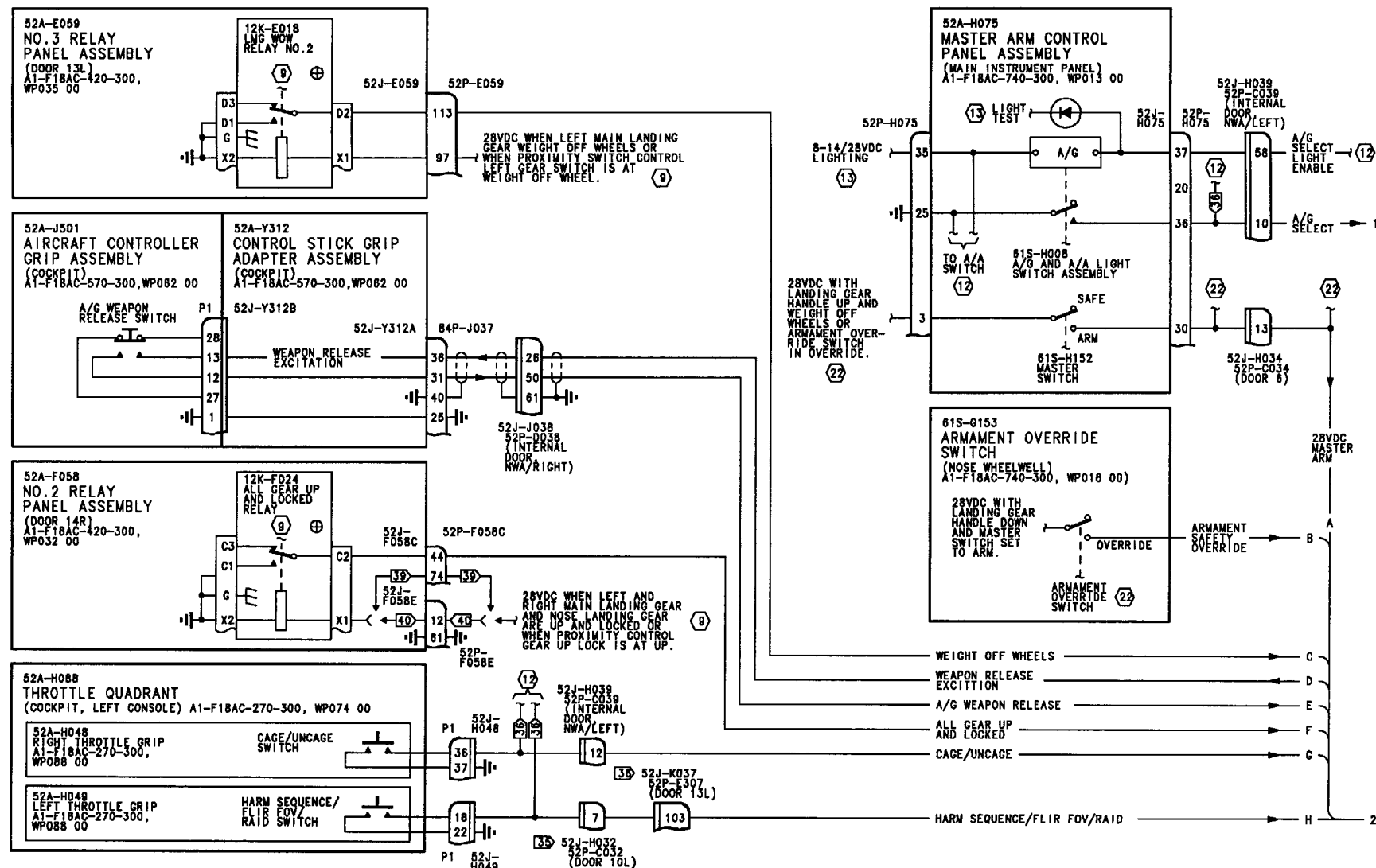


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 1)

05000101
Figure 1.

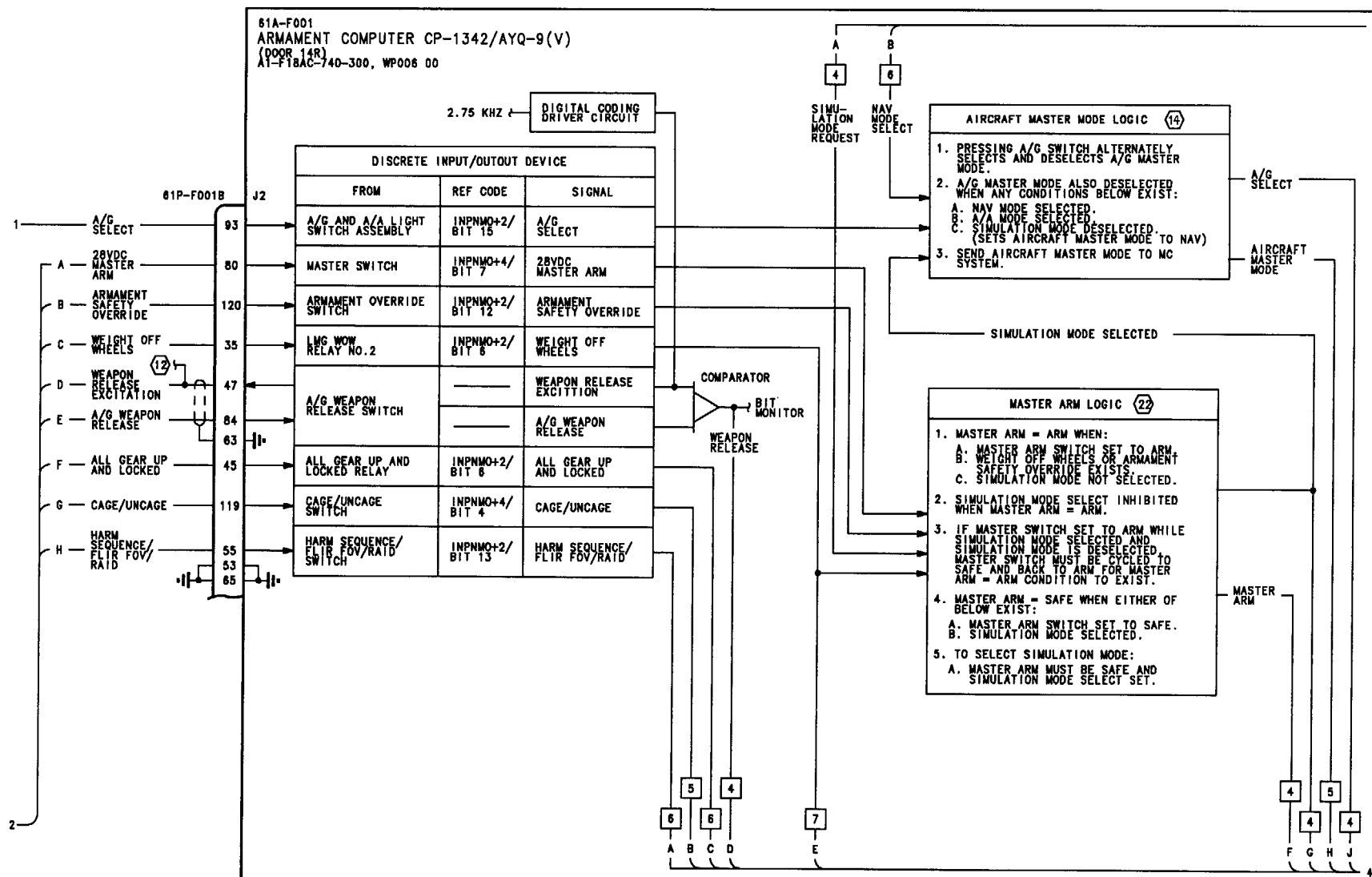


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 2)

Figure 1.

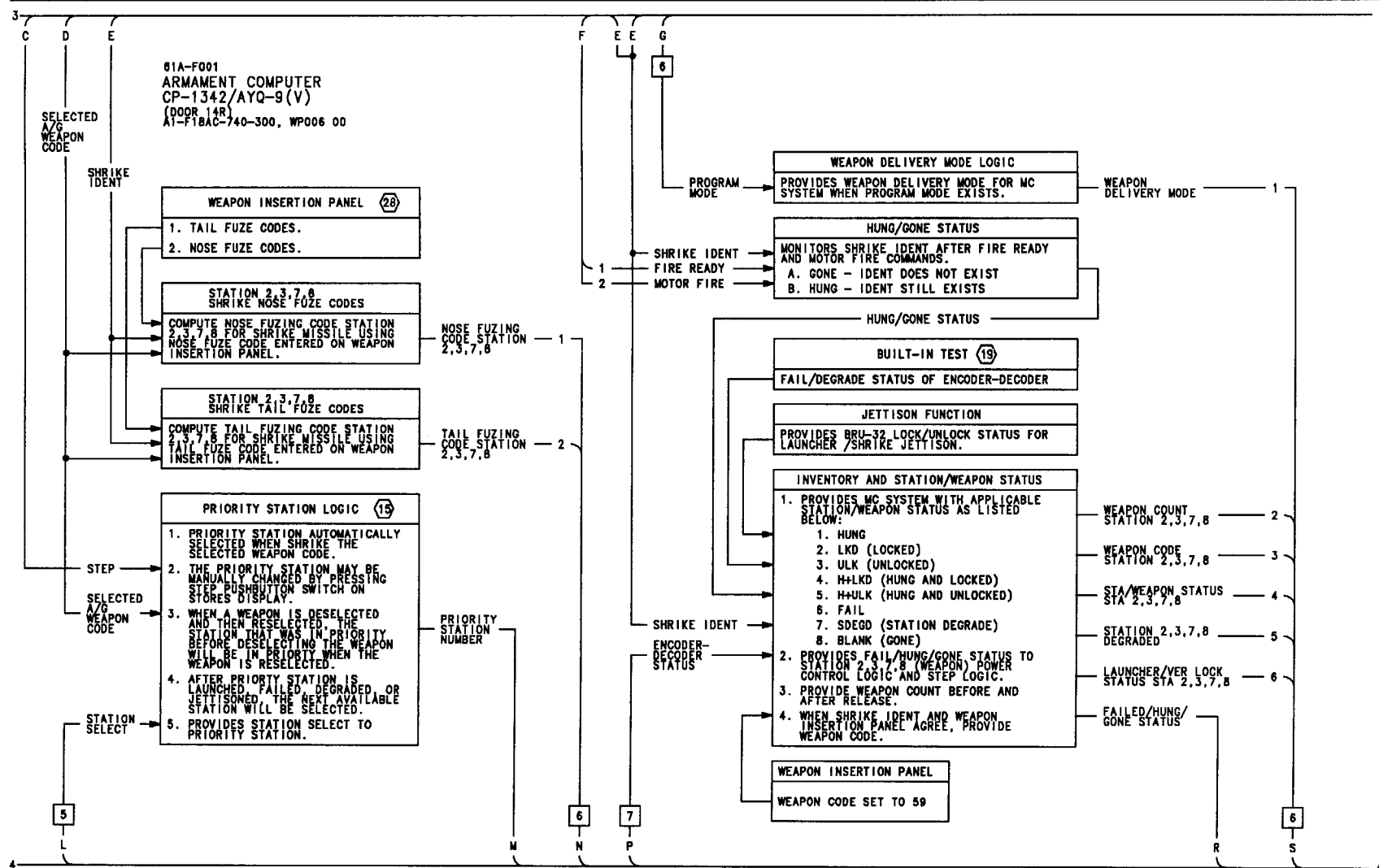


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 3)

Figure 1.

05000103

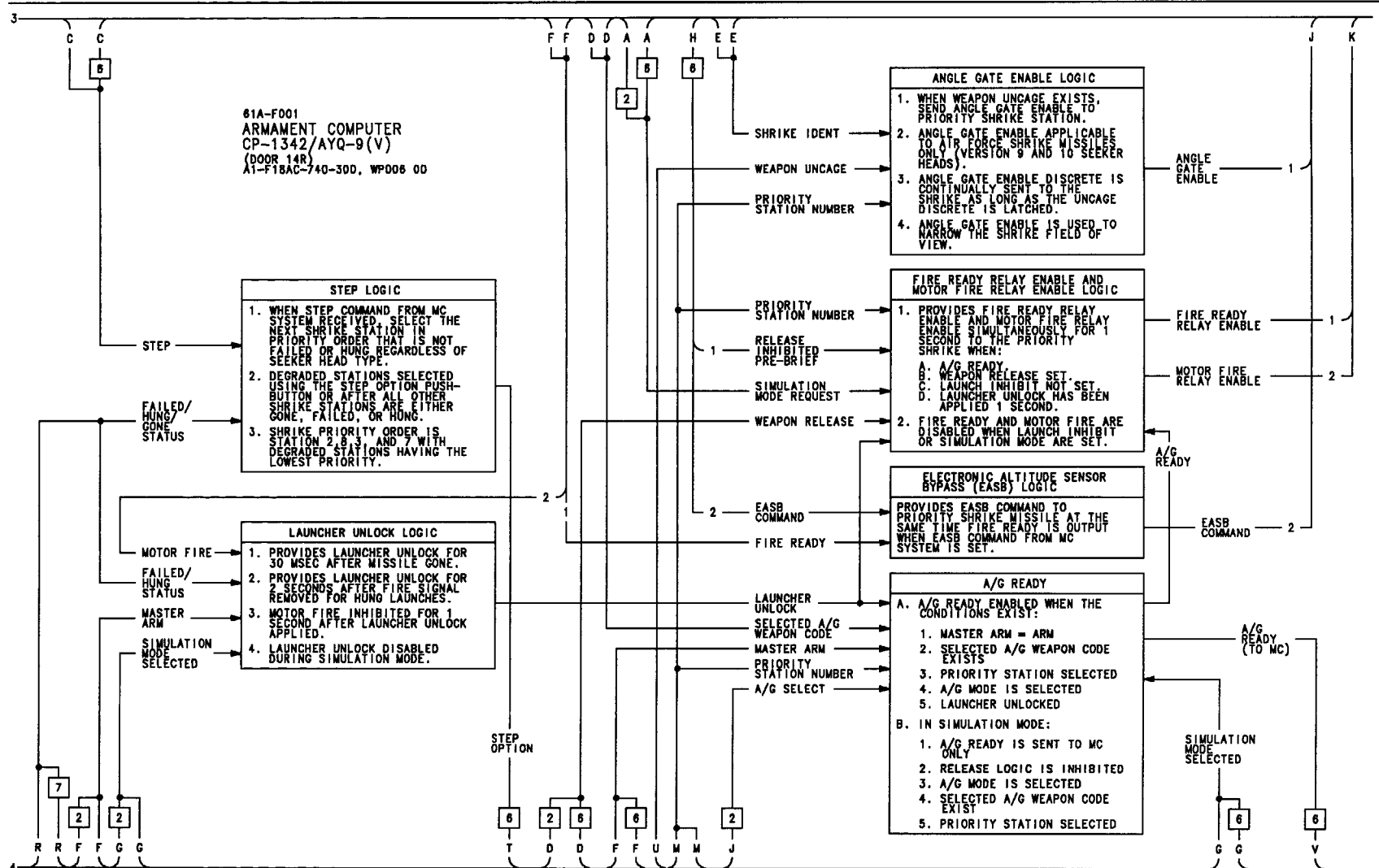


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 4)

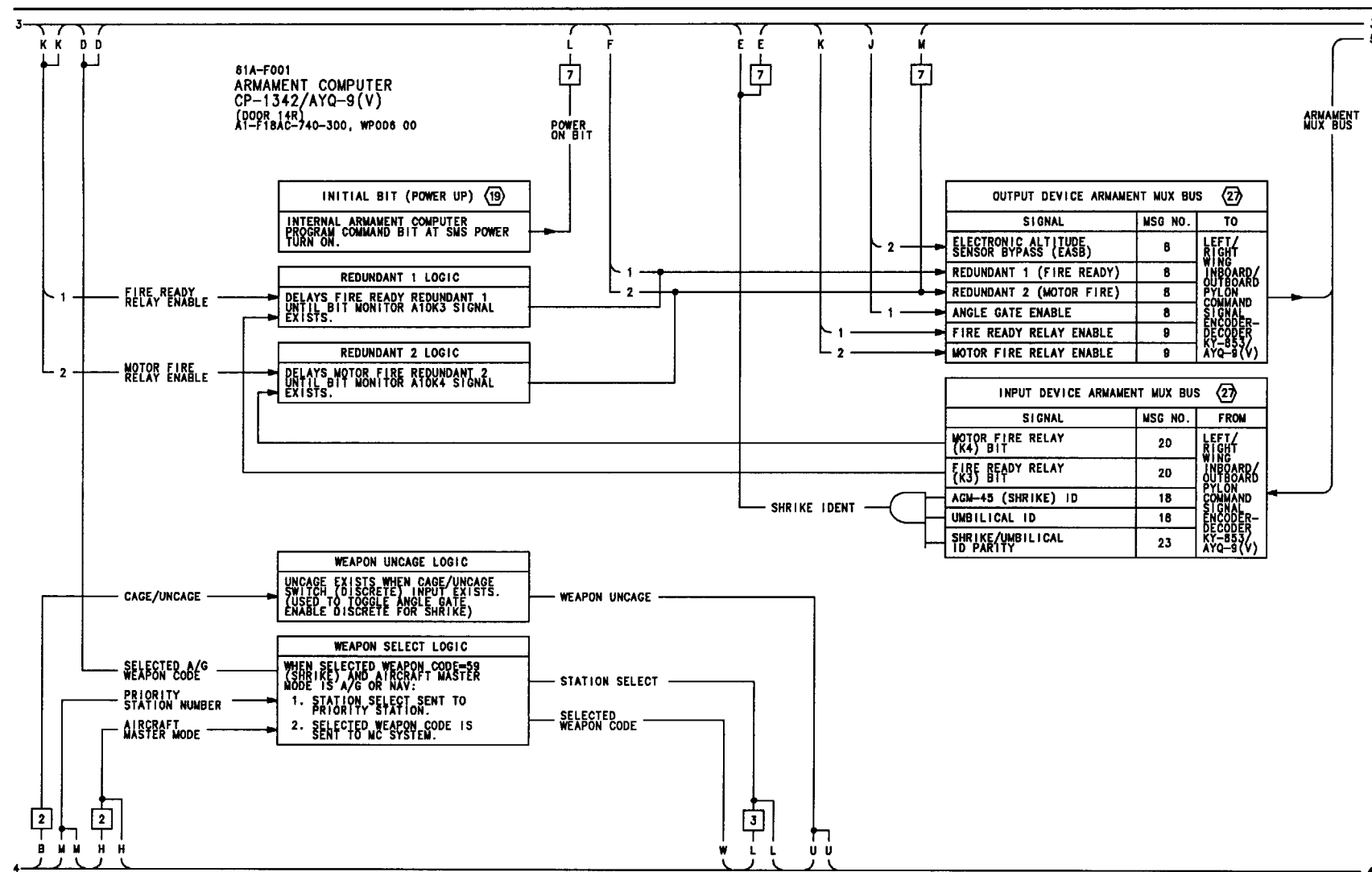


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 5)

Figure 1.

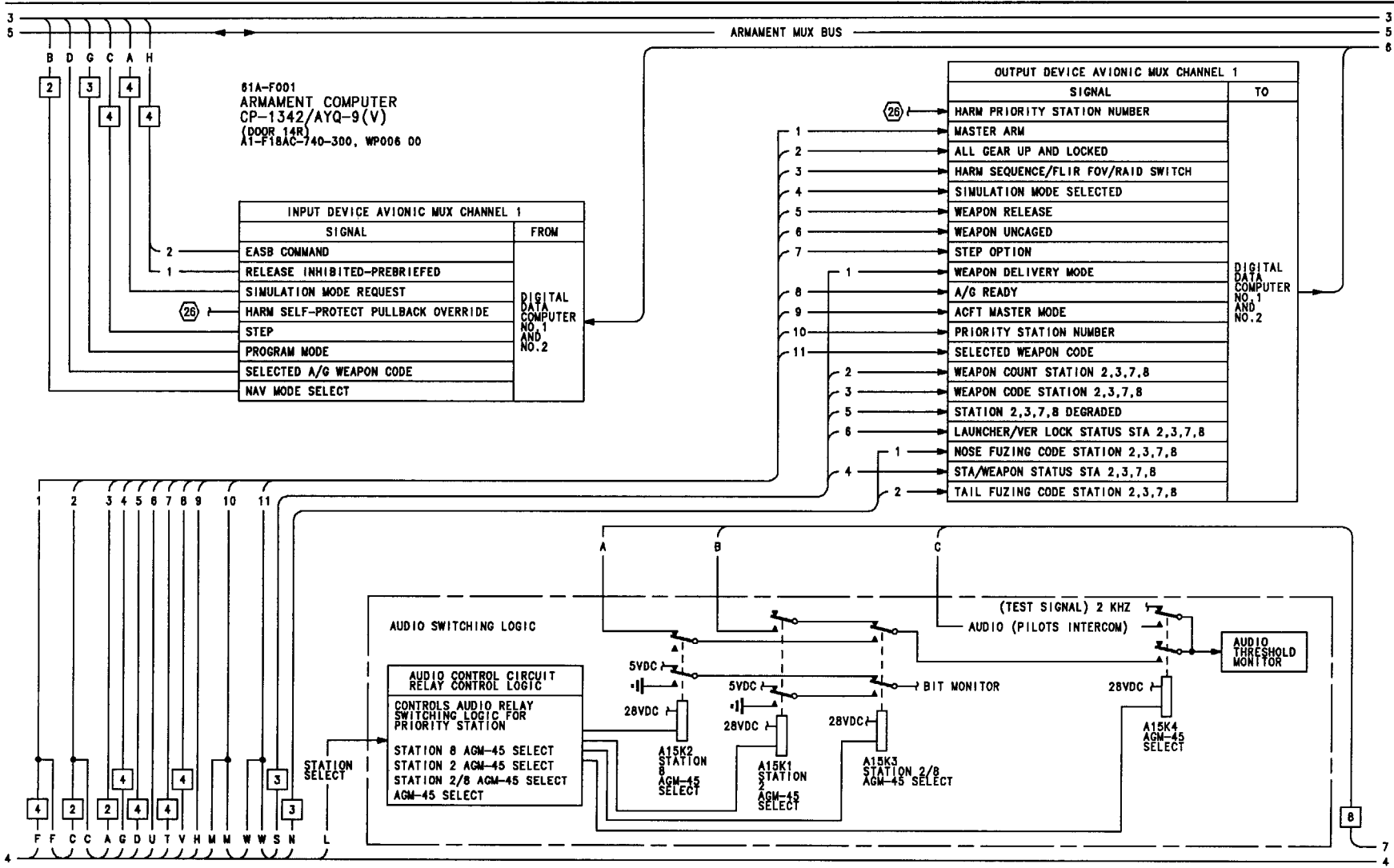


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 6)

Figure 1.

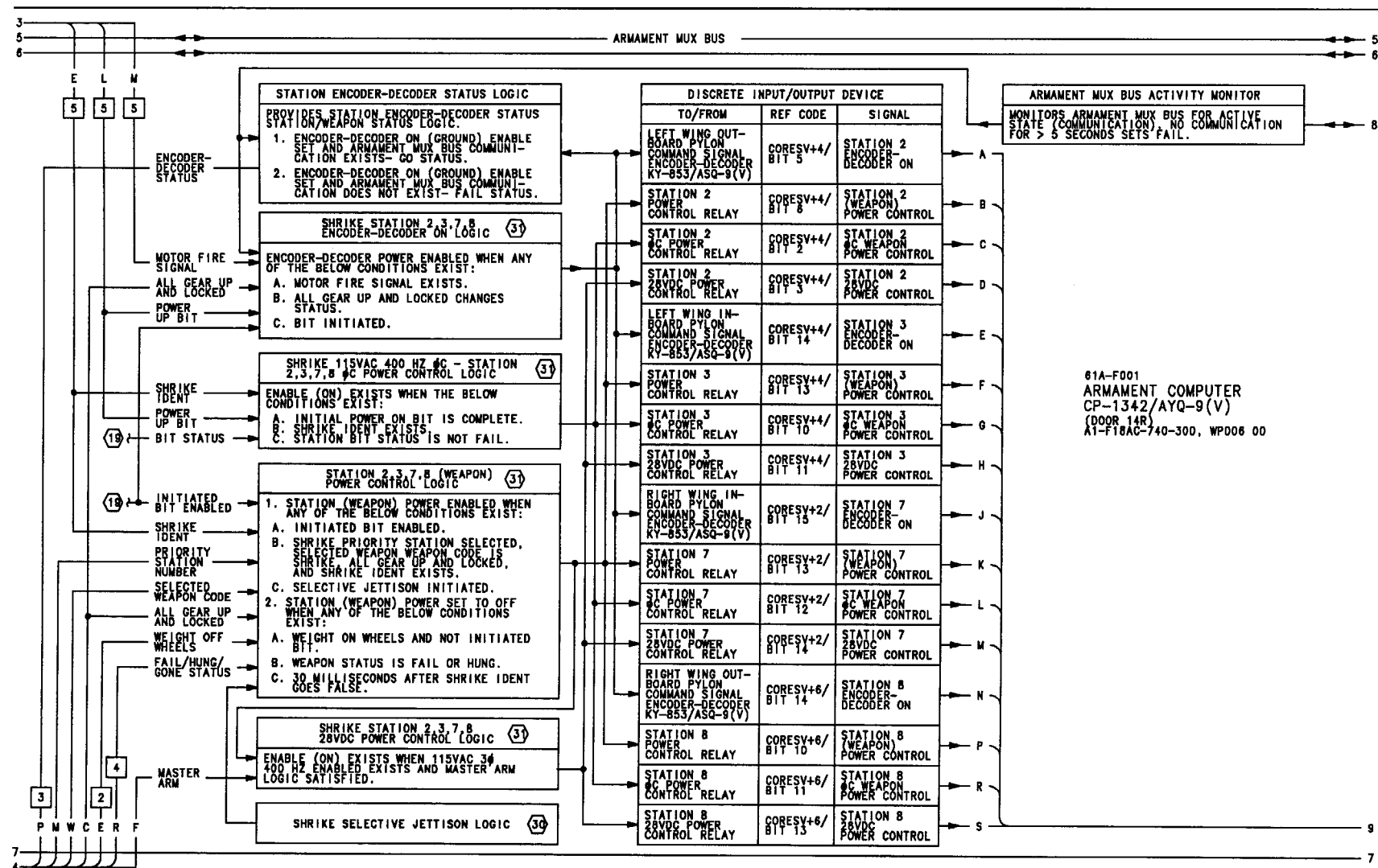


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 7)

05000107
Figure 1.

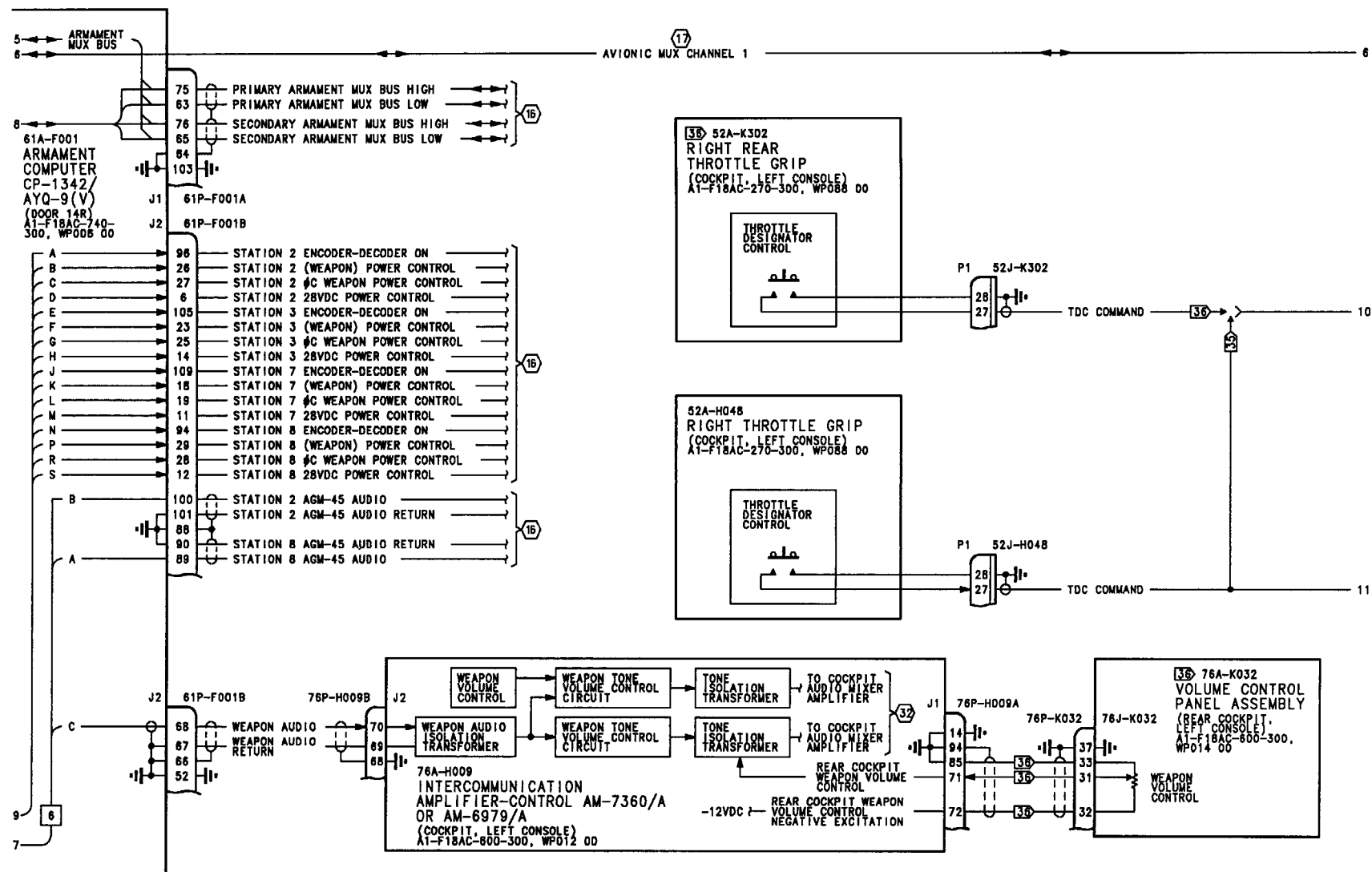


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 8)

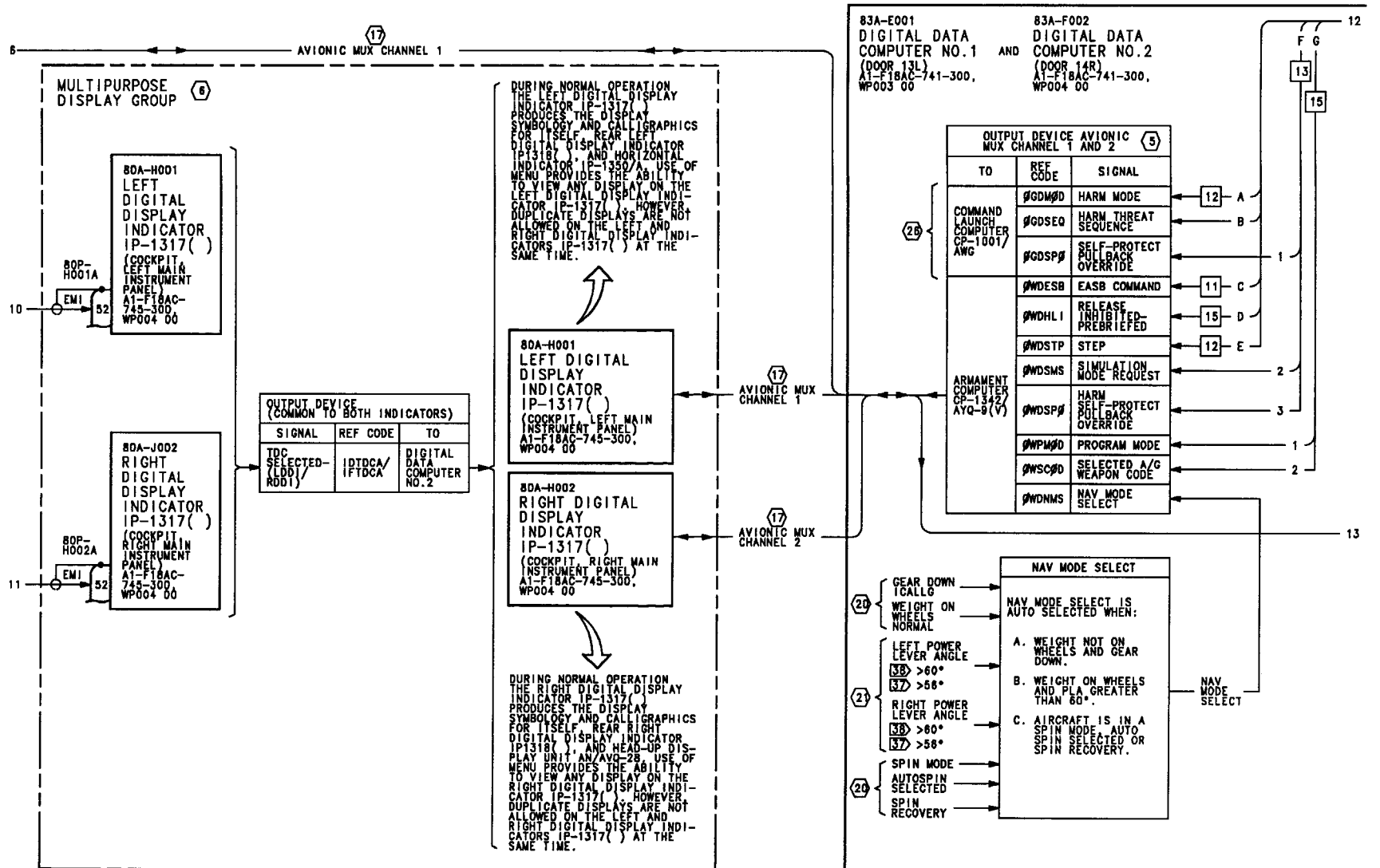


Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 9)



Figure 1.



Figure 1.

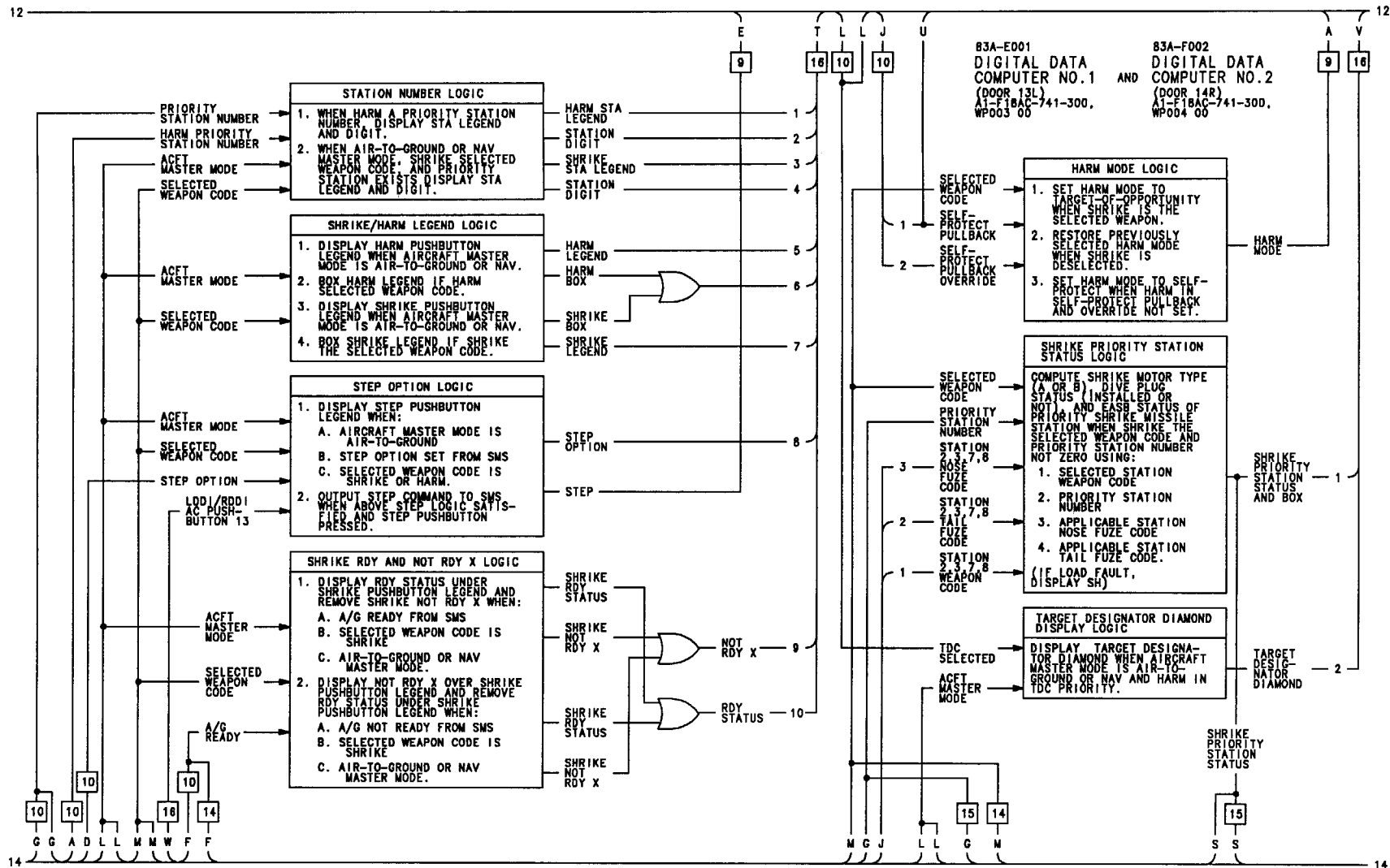


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 12)

Figure 1.

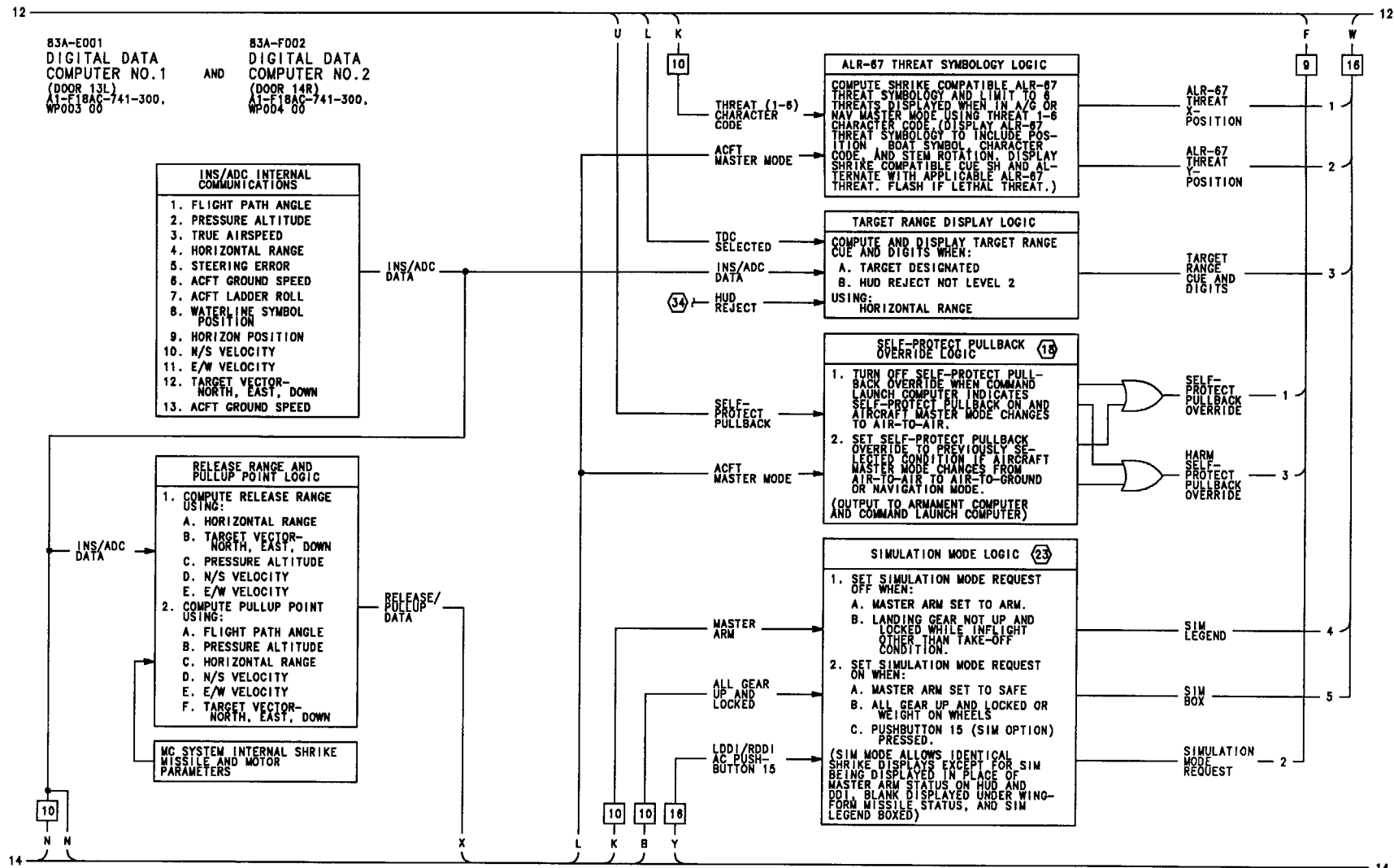


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 13)

Figure 1.

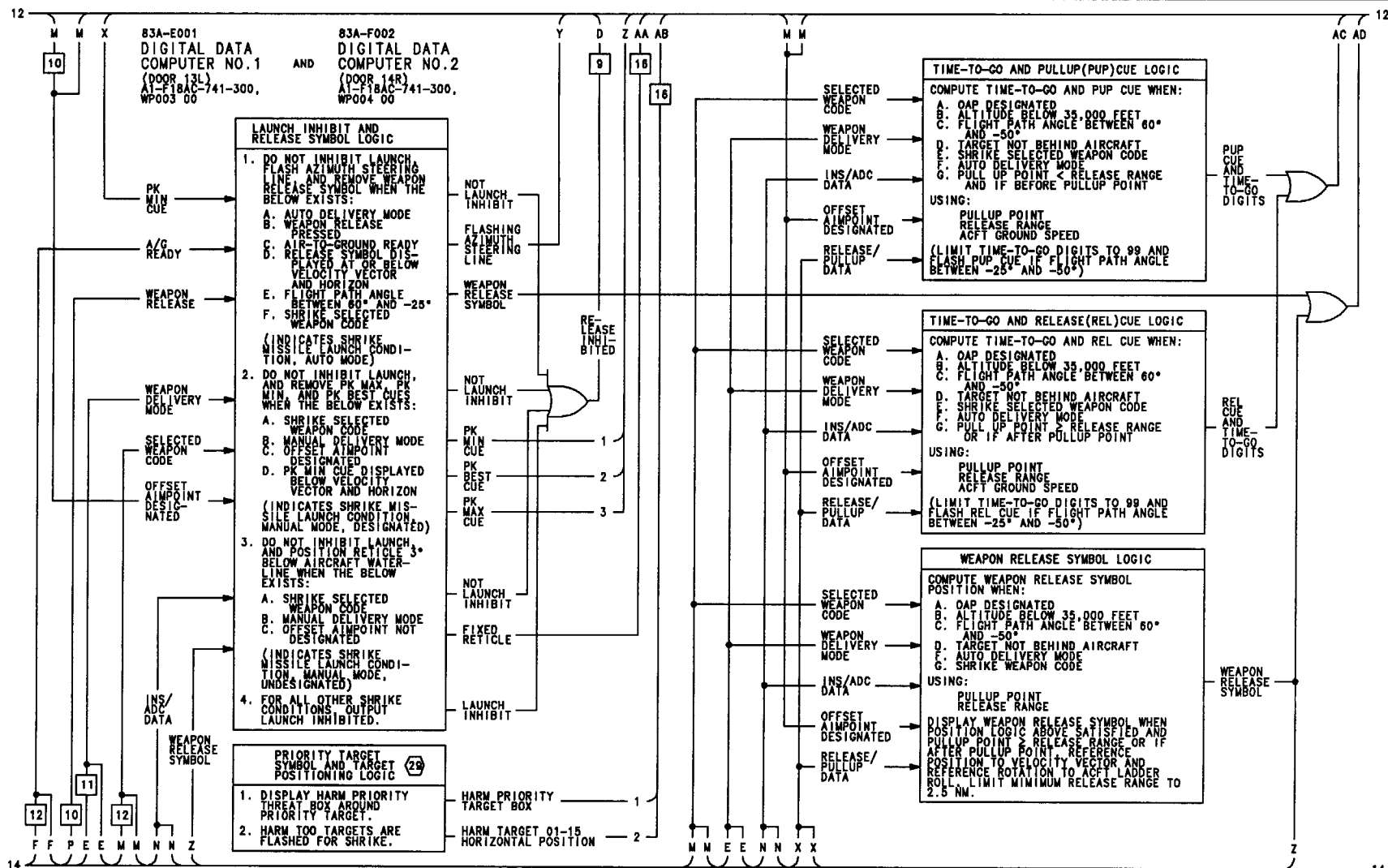


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 14)

Figure 1.

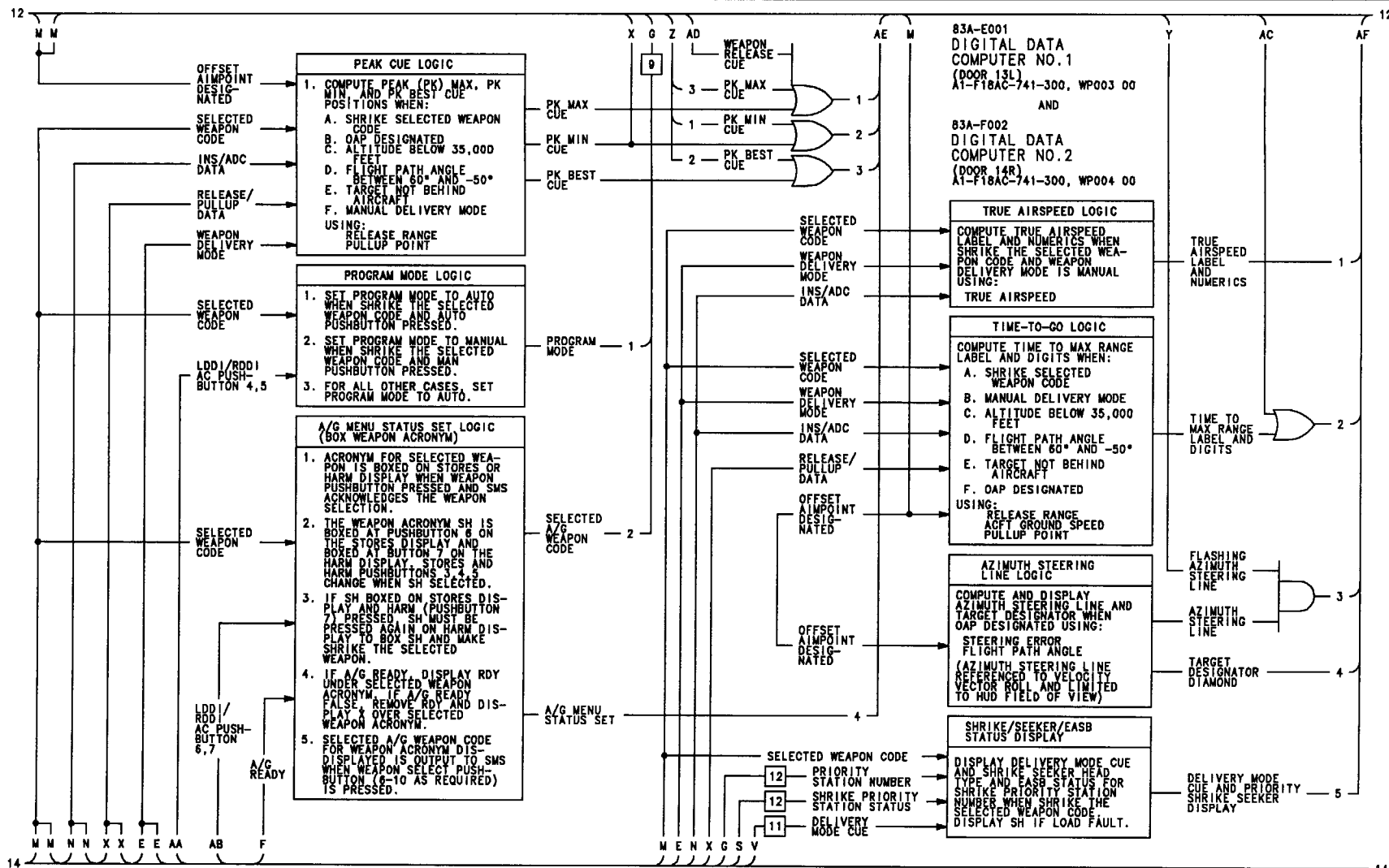


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 15)

Figure 1.

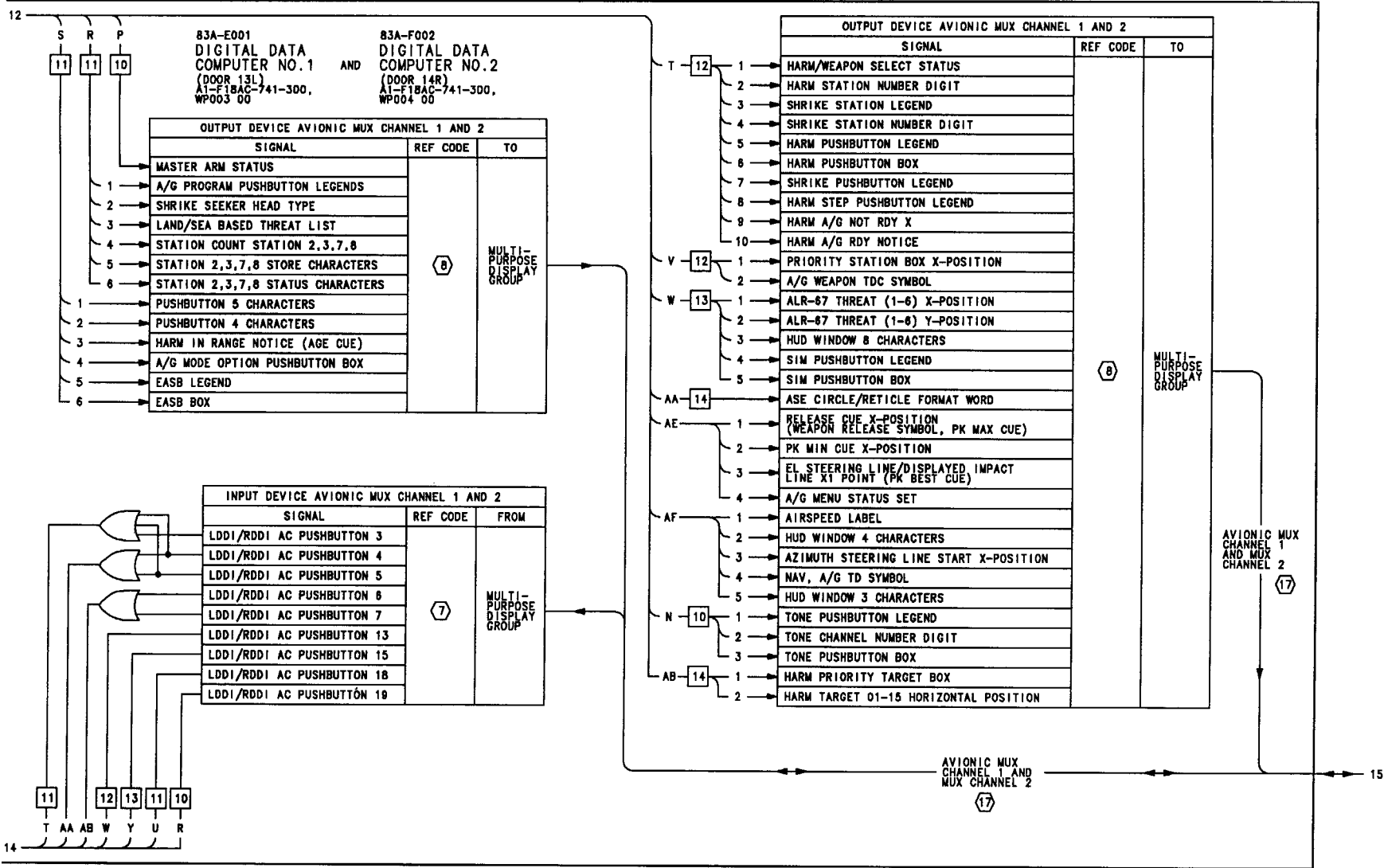


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 16)

Figure 1.

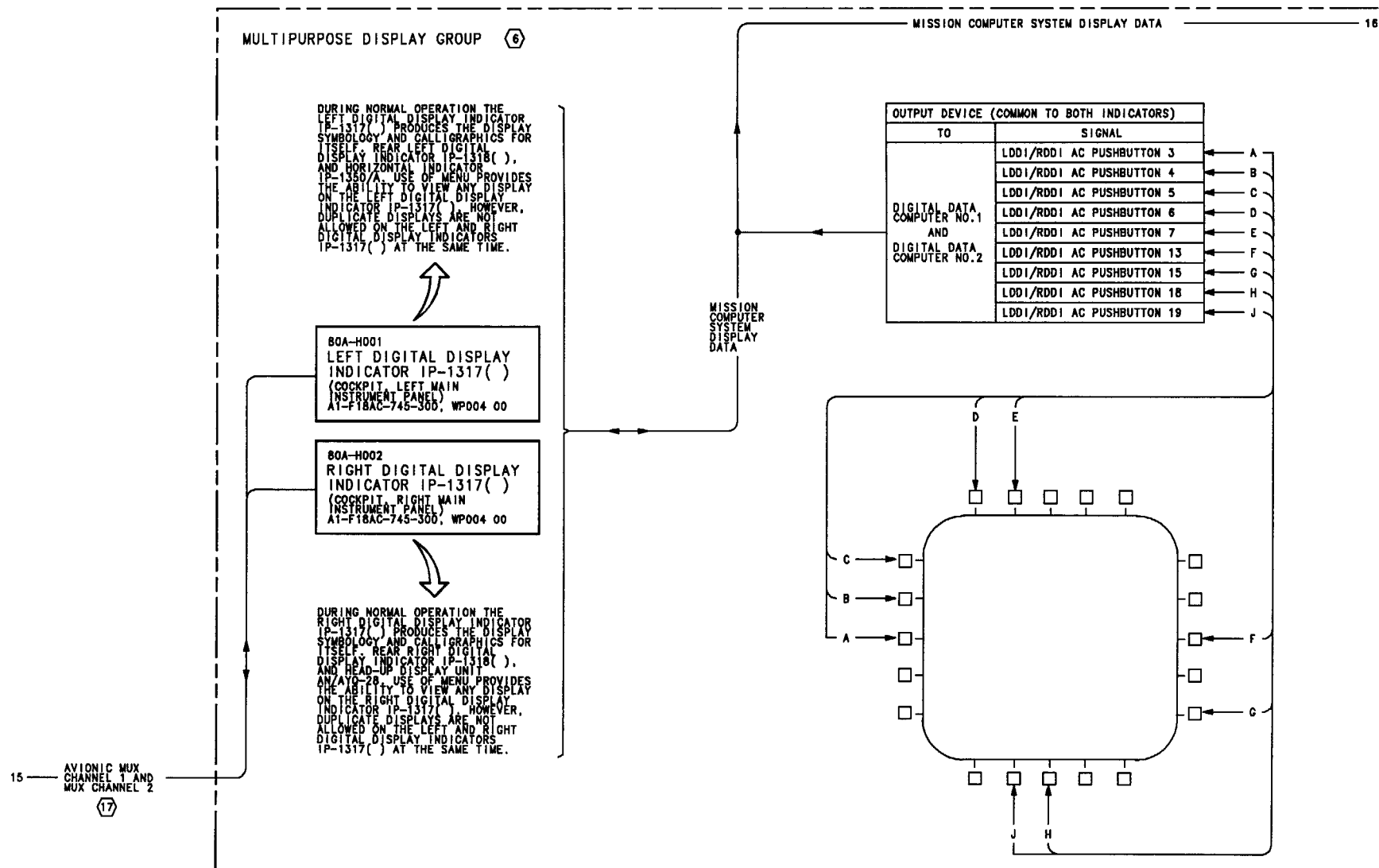


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 17)

Figure 1.

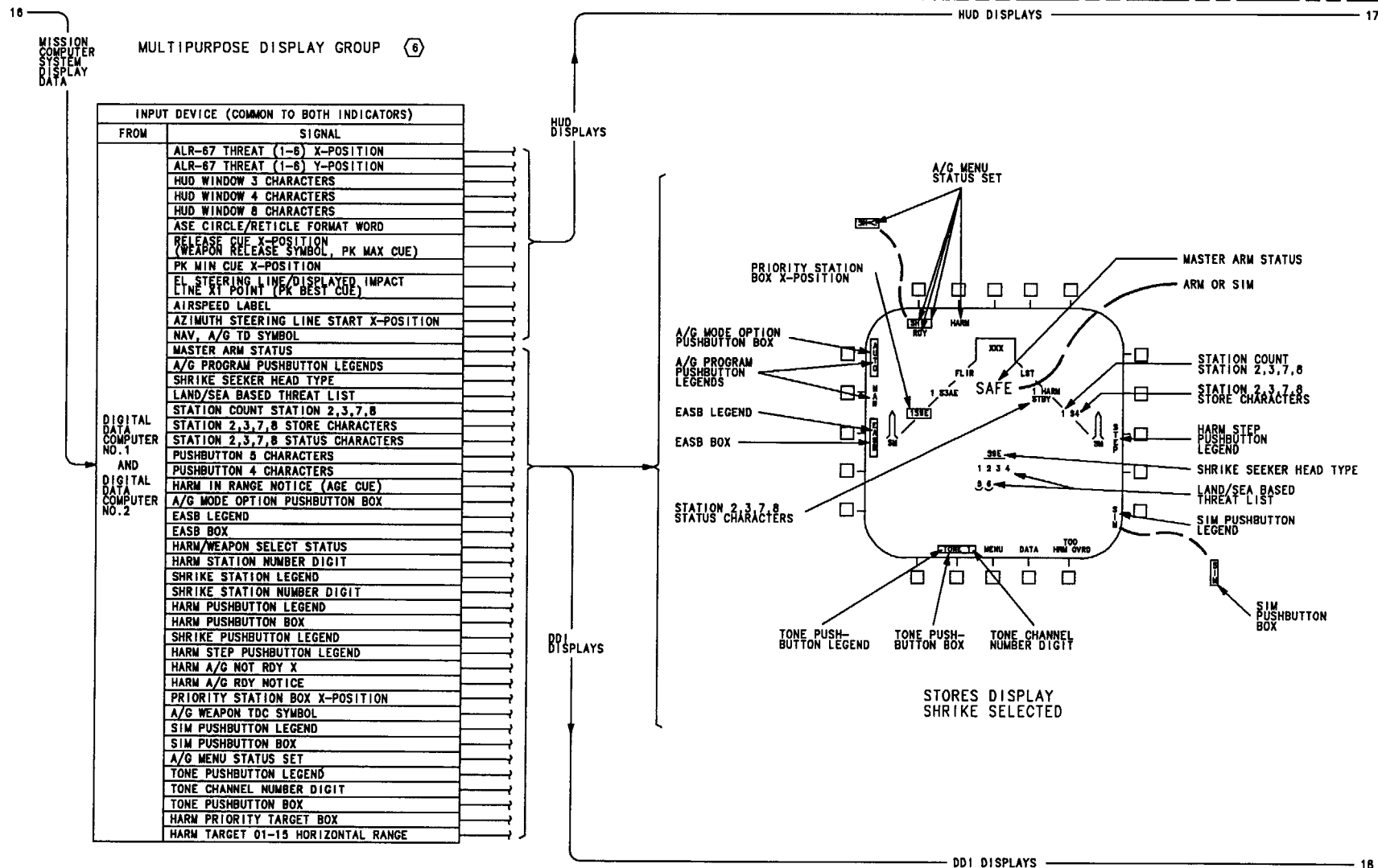


Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 18)

Figure 1.

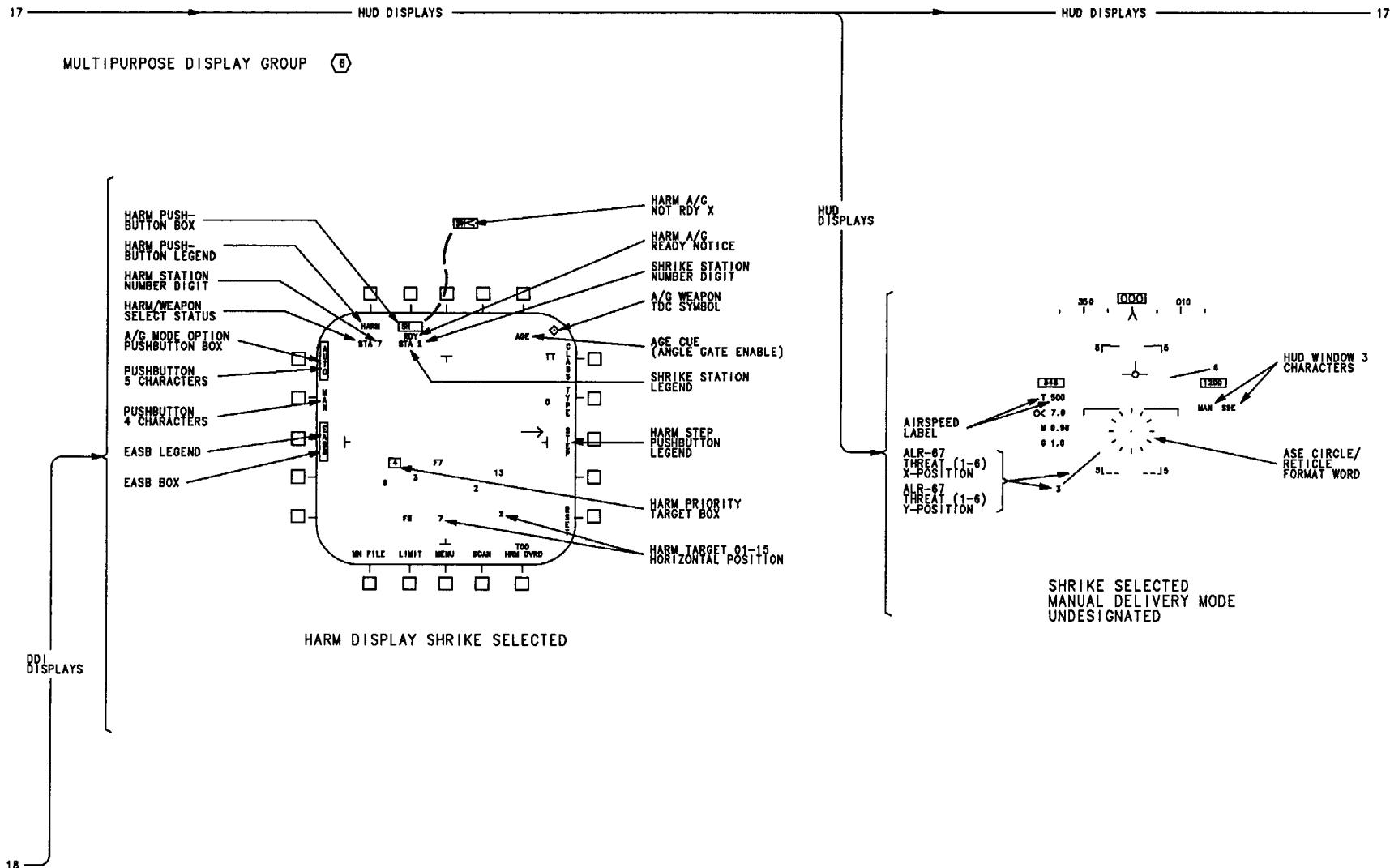


Figure 1.

Figure 1. AGM-55 Shrike Avionic Interface Schematic (Sheet 19)

Figure 1.

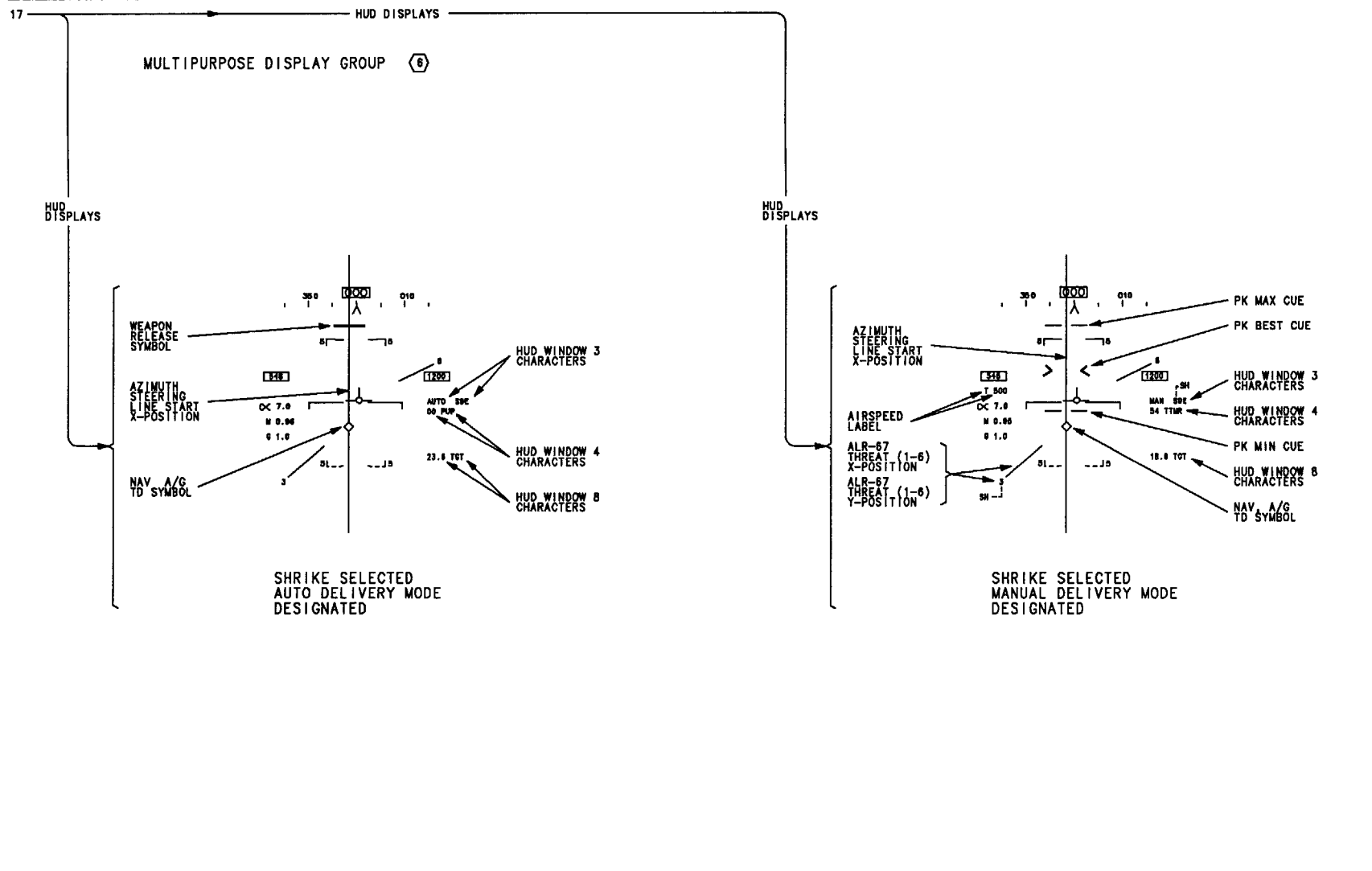


Figure 1.

Figure 1. AGM-55 Shrike Avionic Interface Schematic (Sheet 20)

Figure 1.

05000120

LEGEND		
1.	NONSTANDARD SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	
	C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.	
	D. WHEN TESTING CONTINUITY, TEST FOR:	
	(1) SHORTS TO GROUND.	
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	
	(4) SHIELD CONTINUITY.	
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	
4.	ABBREVIATIONS: SEE WP002 01.	
5	FOR LOGIC DIAGRAMS RELATING TO REF CODES, REFER TO A1-F18A()-OLD-000. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.	
6	THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD-UP DISPLAY UNIT AN/AVQ-28, HORIZONTAL INDICATOR IP-1350/A AND ON F/A-18B THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), REAR RIGHT DIGITAL DISPLAY INDICATOR IP-1318() AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP, REFER TO A1-F18AC-745-500.	
7	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT USING; A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
8	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, TROUBLESHOOT USING A1-F18AC-OLD-000 INPUT REF CODES. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR. TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
9	LANDING GEAR CONTROLLED RELAY SCHEMATIC, A1-F18AC-130-500, WP006 00.	
10	WEAPON SELECT SCHEMATIC, WP015 00.	
11	STORES INVENTORY SCHEMATIC, WP014 00.	
12	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	
13	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.	
14	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP013 00.	
15	PRIORITY WEAPON RELEASE SEQUENCE, WP009 00.	
16	WEAPON STATION 2, 3, 7, 8, AGM-45 SHRIKE SCHEMATIC, WP063 00.	
17	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	
	AGM-88 HARM SELF-PROTECT (SP) MODE INTERFACE SCHEMATIC, WP059 03.	
	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP022 00.	
	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.	
	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.	
	MASTER ARM SCHEMATIC, WP016 00.	
	SIMULATION MODE SELECT SCHEMATIC, WP020 01.	
	AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP011 01.	
	MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTION SCHEMATIC, A1-F18AC-745-500, WP010 00.	
	AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP059 01.	
	ARMAMENT MUX BUS DATA, WP010 00.	
	FUZE TYPES AND ARMAMENT COMPUTER FUZE CODES, WP009 00.	
	AGM-88 HARM TARGET OF OPPORTUNITY (TOO) MODE INTERFACE SCHEMATIC, WP059 02.	
	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP018 00.	
	WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP031 01.	
	INTERCOMMUNICATIONS AND AUDIO SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-600-500, WP013 00.	
	CONTROLS, DISPLAYS AND AUDIO SCHEMATIC, A1-F18AC-760-500, WP015 00.	
	NAVIGATION ATTITUDE AND HEADING FUNCTIONAL SCHEMATIC, A1-F18AC-730-500, WP017 00.	
	F/A-18A.	
	F/A-18B.	
	161353 THRU 161528.	
	161702 AND UP.	
	161353 THRU 161987 BEFORE F18 AFC 48.	
	162394 AND UP: ALSO 161353 THRU 161987 AFTER F18 AFC 48.	

Figure 1.

Figure 1. AGM-45 Shrike Avionic Interface Schematic (Sheet 21)

Figure 1.